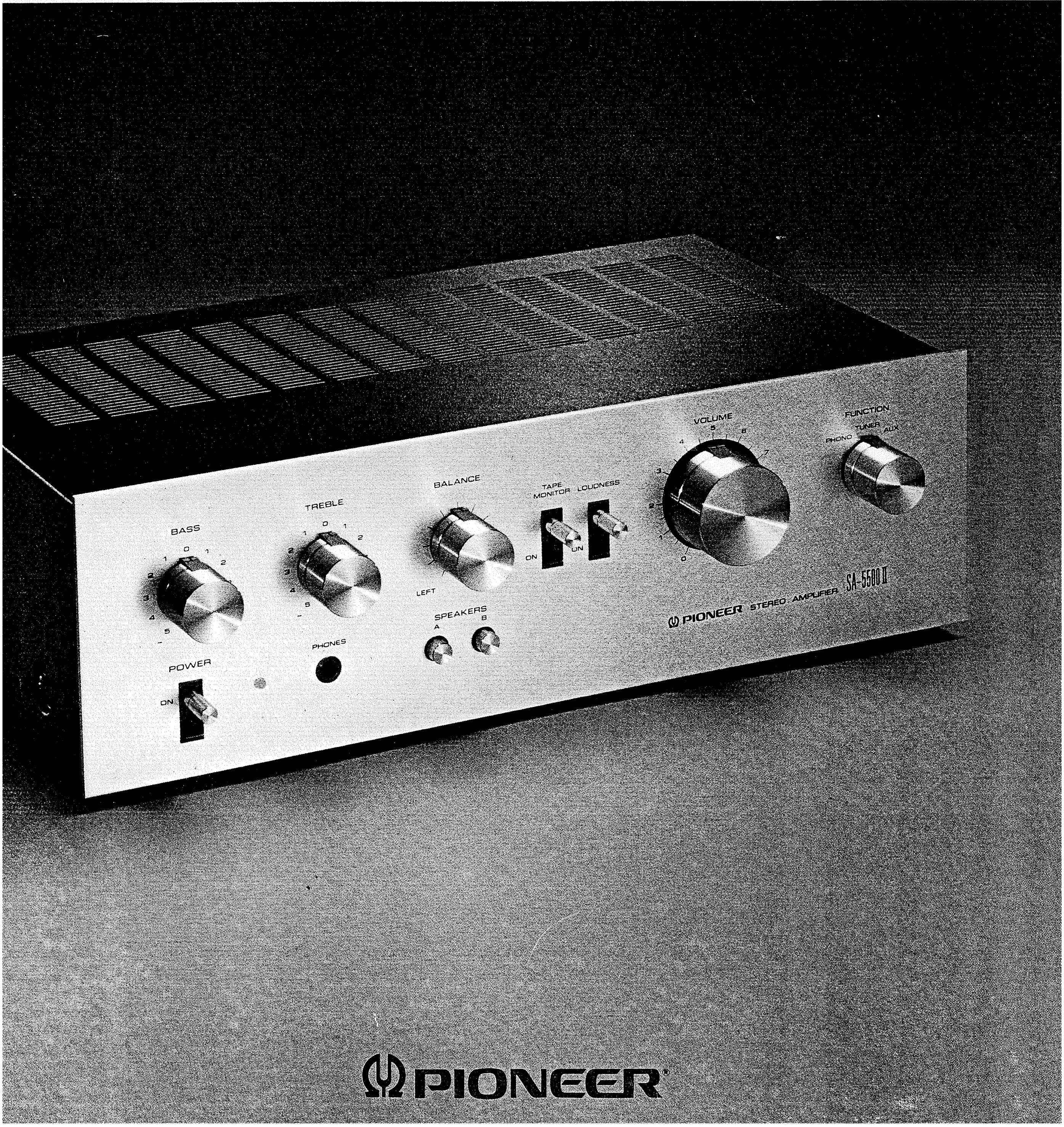
STEREO AMPLIFIER

SA-5500II

SERVICE MANUAL


BASS
TREBLE
BALANCE
LEFT
TAPE MONITOR
LOUDNESS
ON
VOLUME
FUNCTION
PHONO
TUNER
AUX
POWER
ON
PHONES
SPEAKERS
A
B
PIONEER STEREO AMPLIFIER SA-5500II

PIONEER®

MODEL SA-5500II COMES IN FOUR VERSIONS DISTINGUISHED AS FOLLOWS:

Type	Voltage	Remarks
KU	120V	UL (U.S.A.) approved.
KC	120V	CSA (Canada) approved.
HG	220V and 240V (Switchable)	SEMKO (Sweden), NEMKO (Norway), DEMKO (Denmark) and EI (Finland) approved.
S	110V, 120V, 220V and 240V (Switchable)	General export model.

This Service Manual is applicable the Model SA-5500II/KU.

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1. SPECIFICATIONS

Semiconductors

ICs	2
Transistors	7
Diodes	7

Amplifier Section

Circuitry	2-stage differential amplifier direct-coupled OCL
Continuous Power Output from 20 Hertz to 20,000 Hertz (Both channels driven)	15 watts per channel (8 ohms)
Total Harmonic Distortion at 20Hertz to 20,000Hertz from AUX	
Continuous rated power output	0.5%
1watt per channel power output, 8ohms	0.1%
Intermodulation Distortion	
Continuous rated power output	0.5%
1watt per channel power output, 8ohms	0.1%
Speaker	A, B, A + B
Headphones	Low impedance
Damping Factor (20Hertz to 20,000Hertz, 8ohms)	30
Input (Sensitivity/Impedance)	
PHONO	2.5mV/50kohms
TUNER	150mV/50kohms
AUX	150mV/50kohms
TAPE PLAY	150mV/50kohms
PHONO Overload Level (T.H.D.: 0.3%)	130mV (1kHz)
Output (Level/Impedance)	
TAPE REC	150mV
Frequency Response	
PHONO (RIAA Equalization)	20Hz to 20,000Hz ±0.5dB
TUNER, AUX, TAPE PLAY	20Hz to 20,000Hz ±1dB
Tone Control	
BASS	±7dB (100Hz)
TREBLE	±7dB (10kHz)
Loudness Contour	
(Volume control set at −40dB position)	+6dB (100Hz)
Hum and Noise (IHF, short-circuited, A network, rated power)	
PHONO	71dB
TUNER, AUX, TAPE PLAY	87dB

Miscellaneous

Power Requirements	120V 60Hz only.
Power Consumption	70W (UL) 100VA (CSA), 130W (Max.)
Dimensions	380(W) x 124(H) x 269(D) mm 14-15/16 x 4-7/8 x 10-9/16 in
Weight	Without Package; 5.2kg (11lb 7 oz) With Package; 5.9kg (13lb)

Furnished Parts

Operating Instructions	1

NOTE:
Specifications and the design subject to possible modification without notice due to improvements.

2. FRONT PANEL FACILITIES

POWER SWITCH

Set to ON position to energize SA-5500II. After setting to ON, there is a brief delay before sound is obtained. This is due to the operation of the muting circuit which prevents noise when the POWER is switched. This function does not indicate difficulty and normal operating condition is attained in a few seconds. The POWER switch also controls the rear panel SWITCHED convenience outlets.

BASS AND TREBLE CONTROLS

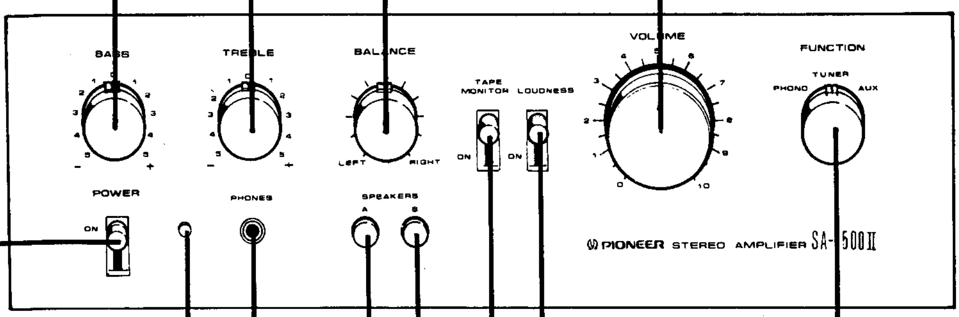
Controls for adjusting low and high frequency tone. Turn controls clockwise to enhance low or high frequencies and counterclockwise to attenuate their respective frequency ranges.

BALANCE CONTROL

Adjusts relative left and right channel volume balance between speaker systems and headphones. If the right channel volume is insufficient, turn the control clockwise from center. Conversely, if the left channel volume is insufficient, turn the control counter-clockwise from center.

VOLUME CONTROL

Adjusts volume from speakers and headphones. Clockwise rotation increases volume.



PILOT LAMP

PHONES JACK

When listening with stereo headphones, connect them to this jack.

NOTE:
Set SPEAKERS buttons to OFF (released position) when listening only with headphones.

SPEAKERS BUTTONS

Switch for selecting speaker systems connected to the rear panel. Sound from corresponding speaker systems is obtained when button is depressed, while sound is not obtained in the released position.

A: Sound obtained from speakers connected to the A speakers terminals.

B: Sound obtained from speakers connected to the B speakers terminals.

If both buttons are depressed simultaneously, sound will be obtained from both sets of speaker systems.

When listening with headphones, set SPEAKERS buttons to released (OFF) positions.

FUNCTION SWITCH

Selects desired playback program source.

PHONO: To play records on a turntable connected to the PHONO jacks.

TUNER: To listen to broadcasts with a tuner connected to the TUNER jacks.

AUX: To play a component connected to the AUX jacks.

LOUDNESS SWITCH

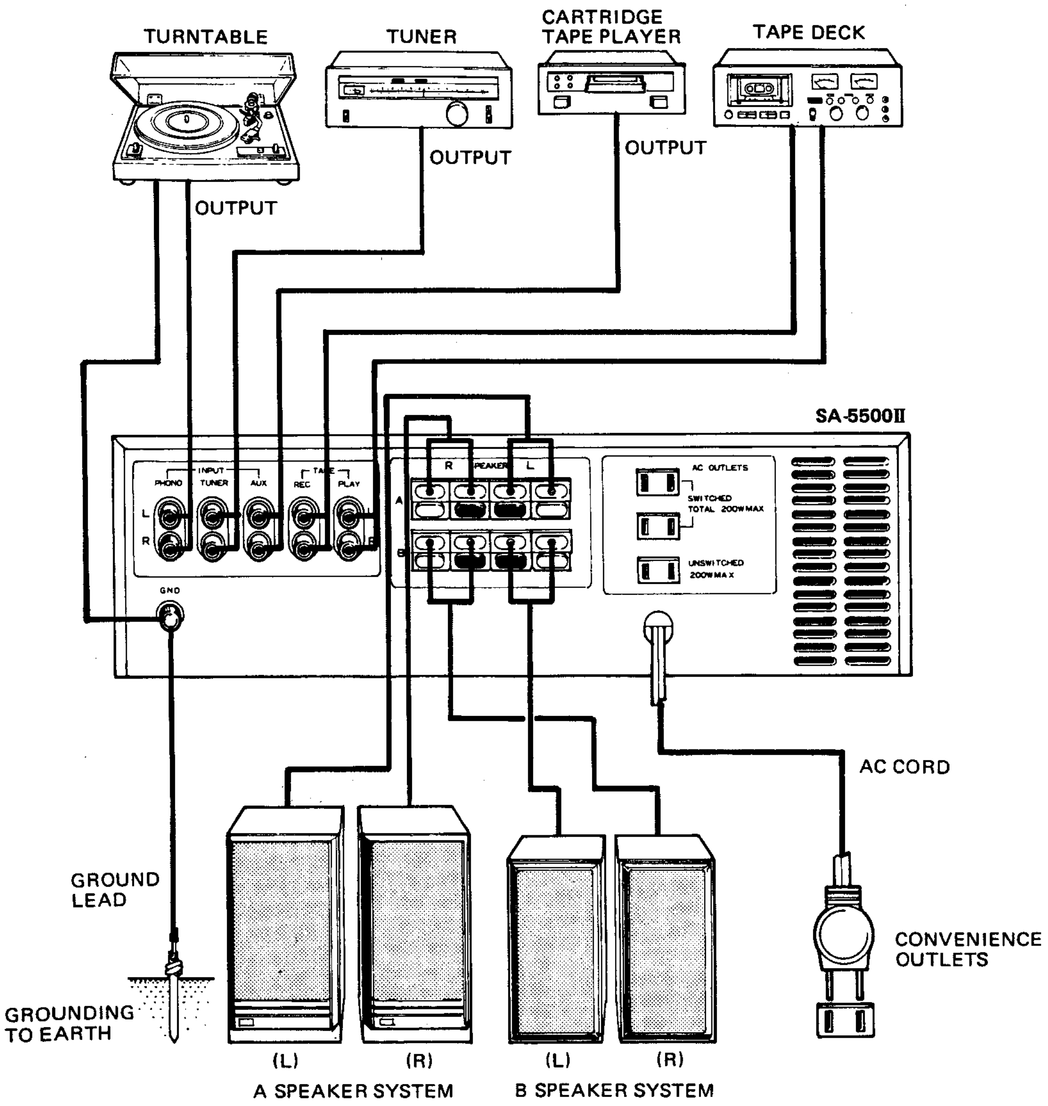
When listening at low volume settings, set switch to ON to enhance low frequencies. The response of the human ear to sound differs according to loudness. This switch compensates for this effect at low volumes.

TAPE MONITOR SWITCH

Set to ON to play on a tape deck connected to the TAPE jacks or to monitor recording conditions.

NOTE:
Be sure to set switch to upper (OFF) position when playing records or listening to broadcasts.

3. CONNECTION DIAGRAM


TURNTABLE
TUNER
CARTRIDGE TAPE PLAYER
TAPE DECK
OUTPUT
OUTPUT
OUTPUT
SA-5500II
INPUT
PHONO
TUNER
AUX
TAPE
REC
PLAY
L
R
GND
SPEAKER
R
L
A
B
AC OUTLETS
SWITCHED
TOTAL 200W MAX
UNSWITCHED
200W MAX
AC CORD
GROUND LEAD
GROUNDING TO EARTH
CONVENIENCE OUTLETS
(L)
(R)
A SPEAKER SYSTEM
(L)
(R)
B SPEAKER SYSTEM

Connection Notes

- Rear panel jacks are provided in pairs, the upper jack for the left (L) channel and lower jack for the right (R) channel. When connecting components, use care to connect the channels properly (L to L and R to R).
- Insert connecting plugs fully. Loose connections can cause absence of sound or noise problems.

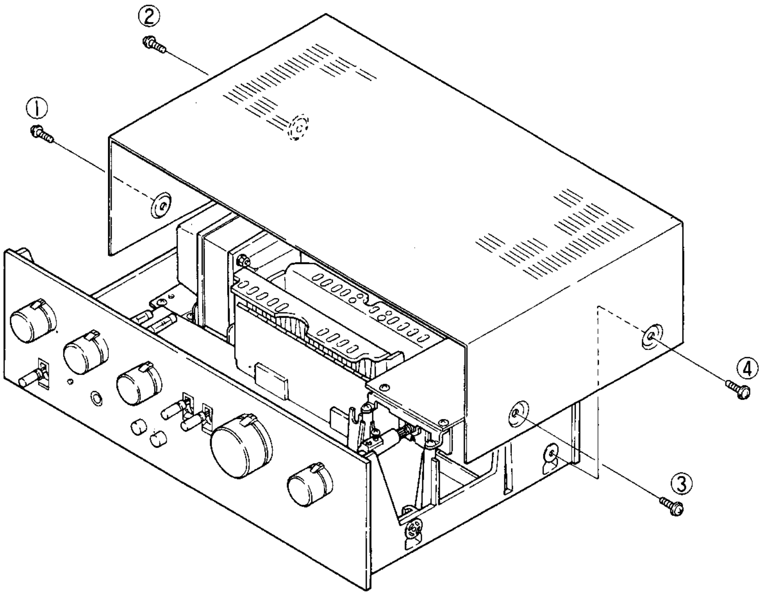
Convenience outlets (AC OUTLETS)

SWITCHED: Power to these outlets is coupled to the operation of the front panel POWER switch. By connecting the power cords of often used components (maximum total 200W) such as a tuner, the tuner power switch can be left in the on position. Power for the tuner will then be controlled by on-off operation of the SA-5500II POWER switch.

UNSWITCHED: Power is always supplied to this outlet (maximum total 200W) regardless of the front panel POWER switch position.

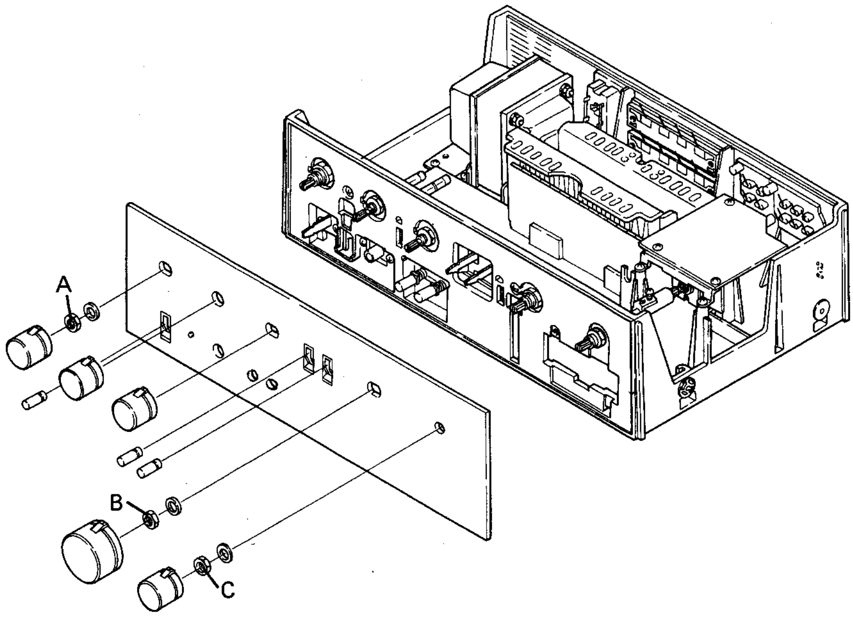
4. DISASSEMBLY

1. Removing the Top Cover.
   Remove the 2 screws on each side of the top cover.



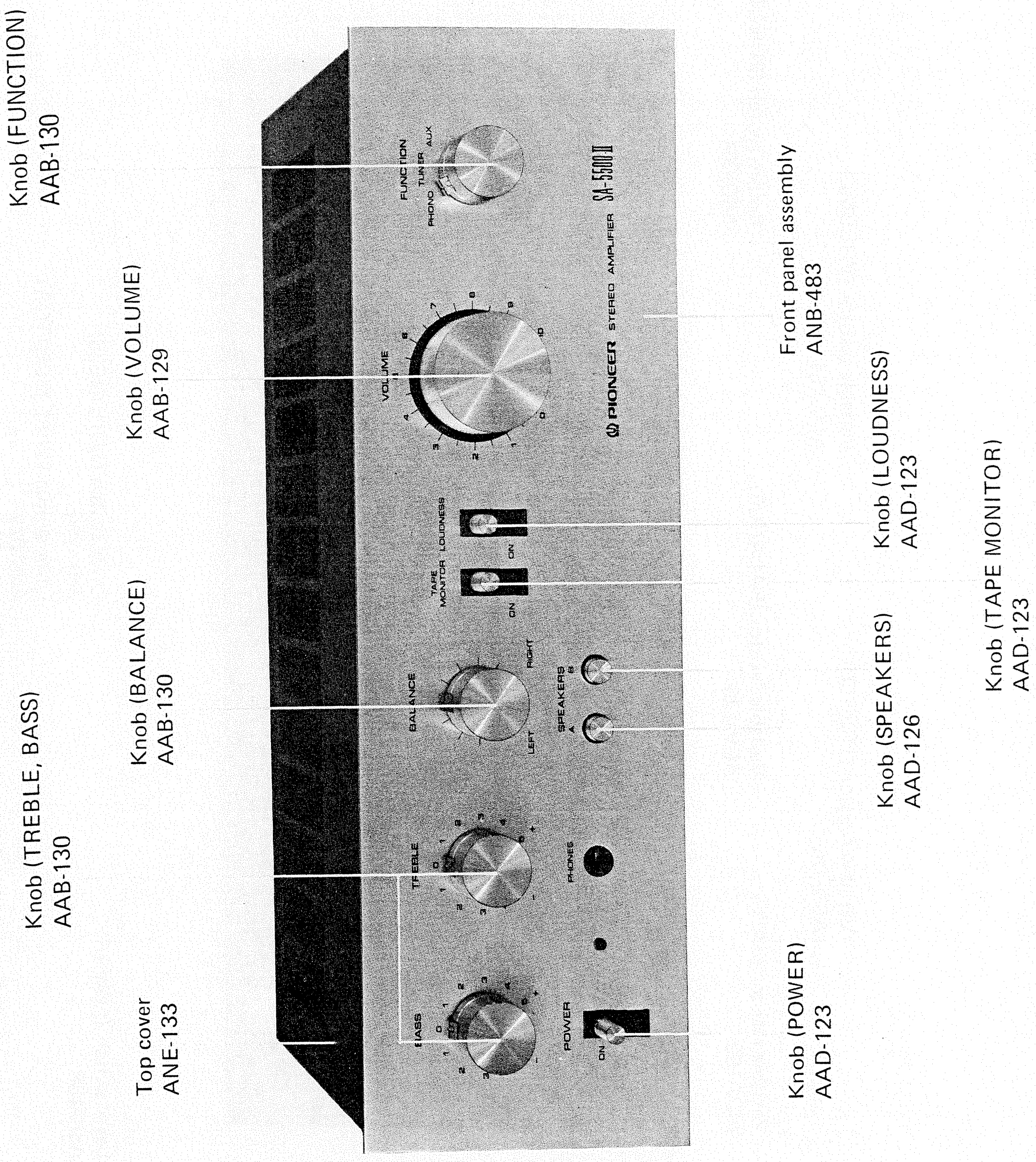
2. Removing the Front Panel.

- Remove all control knobs by pulling.
- Remove shaft nuts A, B and C.

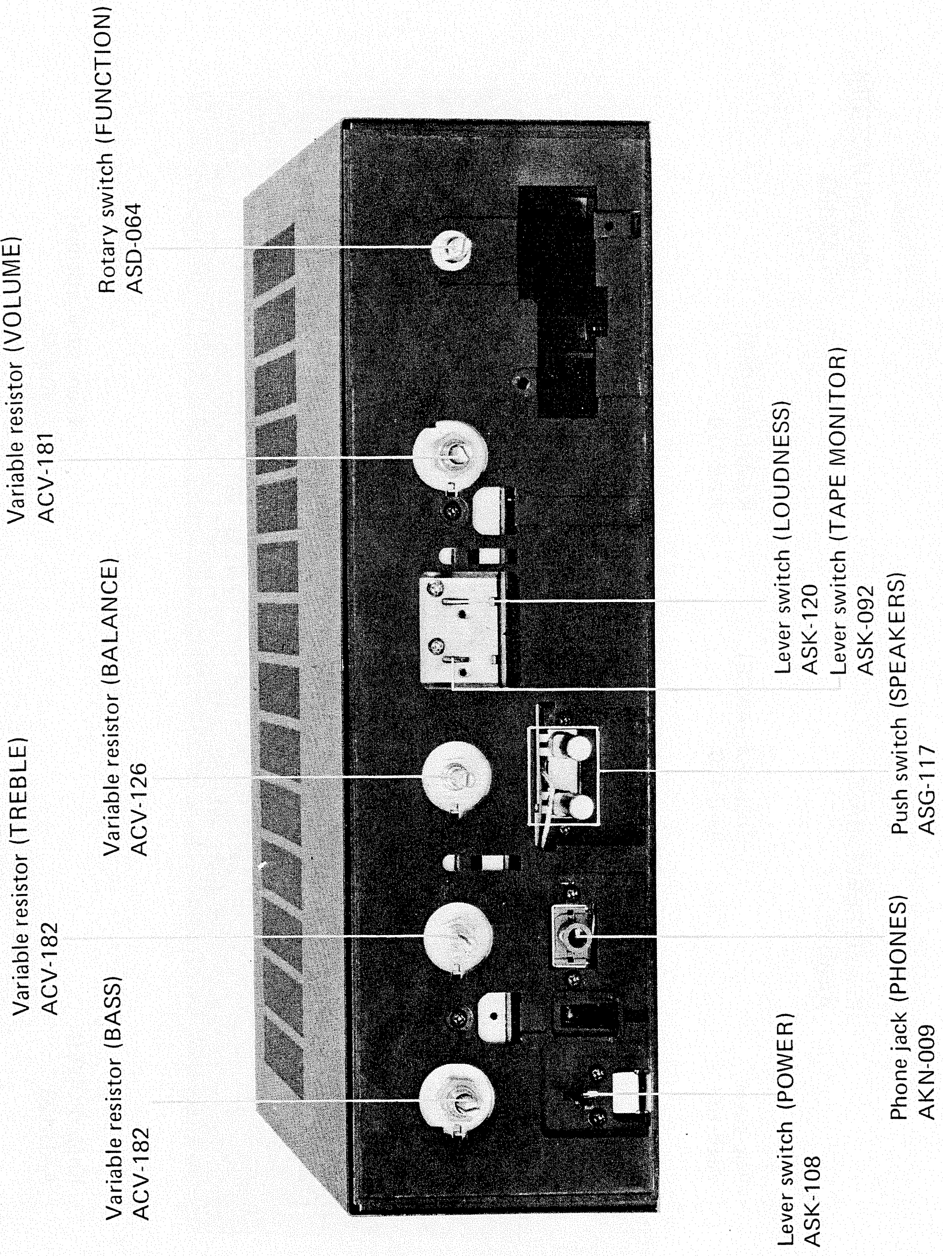


5. PARTS LOCATION

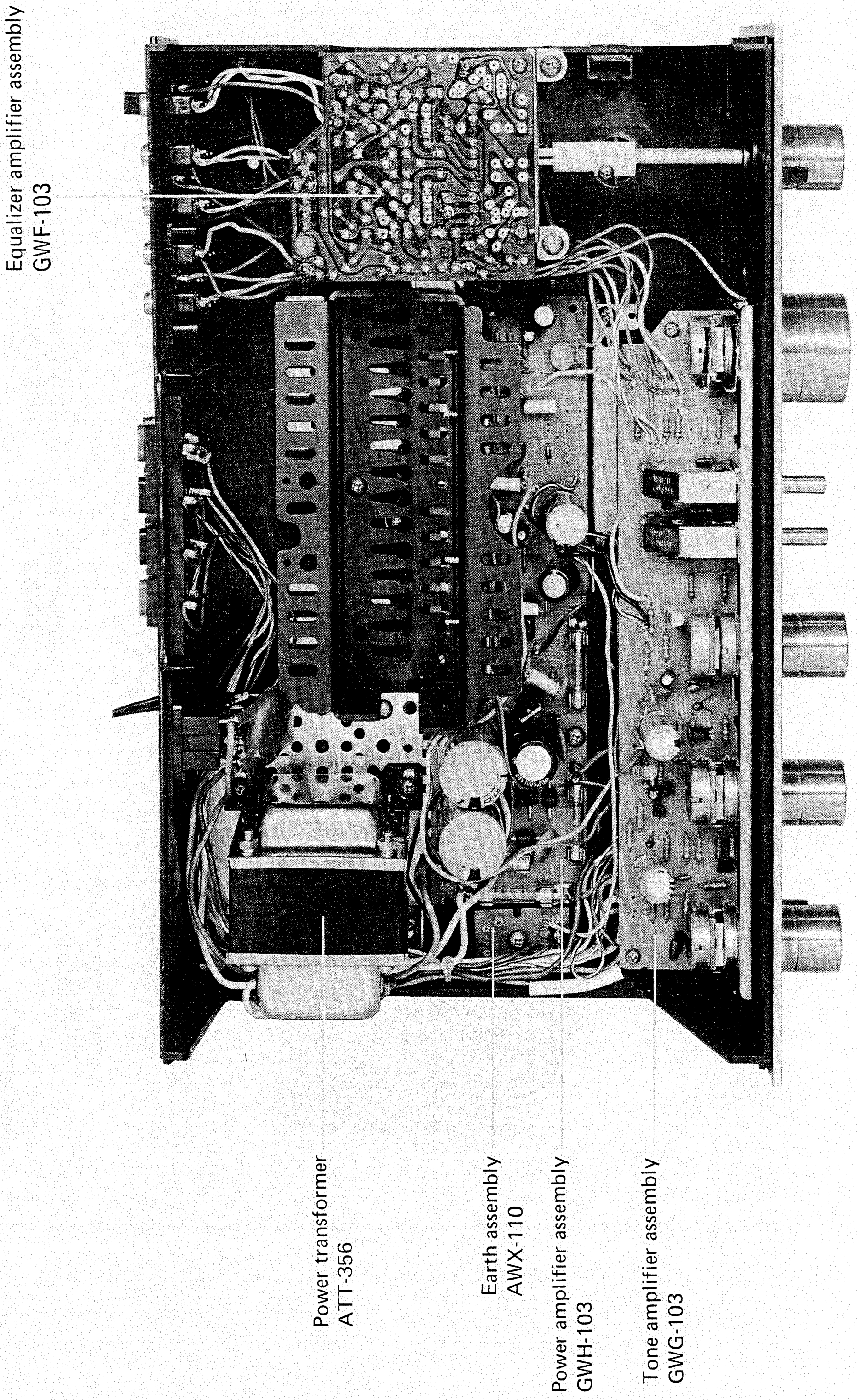
5.1 FRONT PANEL VIEW


Knob (FUNCTION)
AAB-130
Knob (VOLUME)
AAB-129
Knob (BALANCE)
AAB-130
Knob (TREBLE, BASS)
AAB-130
Top cover
ANE-133
Front panel assembly
ANB-483
Knob (LOUDNESS)
AAD-123
Knob (TAPE MONITOR)
AAD-123
Knob (SPEAKERS)
AAD-126
Knob (POWER)
AAD-123
FUNCTION
PHONO
TUNER
AUX
VOLUME
PIONEER
STEREO AMPLIFIER
SA-5500II
TAPE MONITOR
LOUDNESS
ON
BALANCE
LEFT
RIGHT
SPEAKERS
A
B
TREBLE
BASS
PHONES
POWER

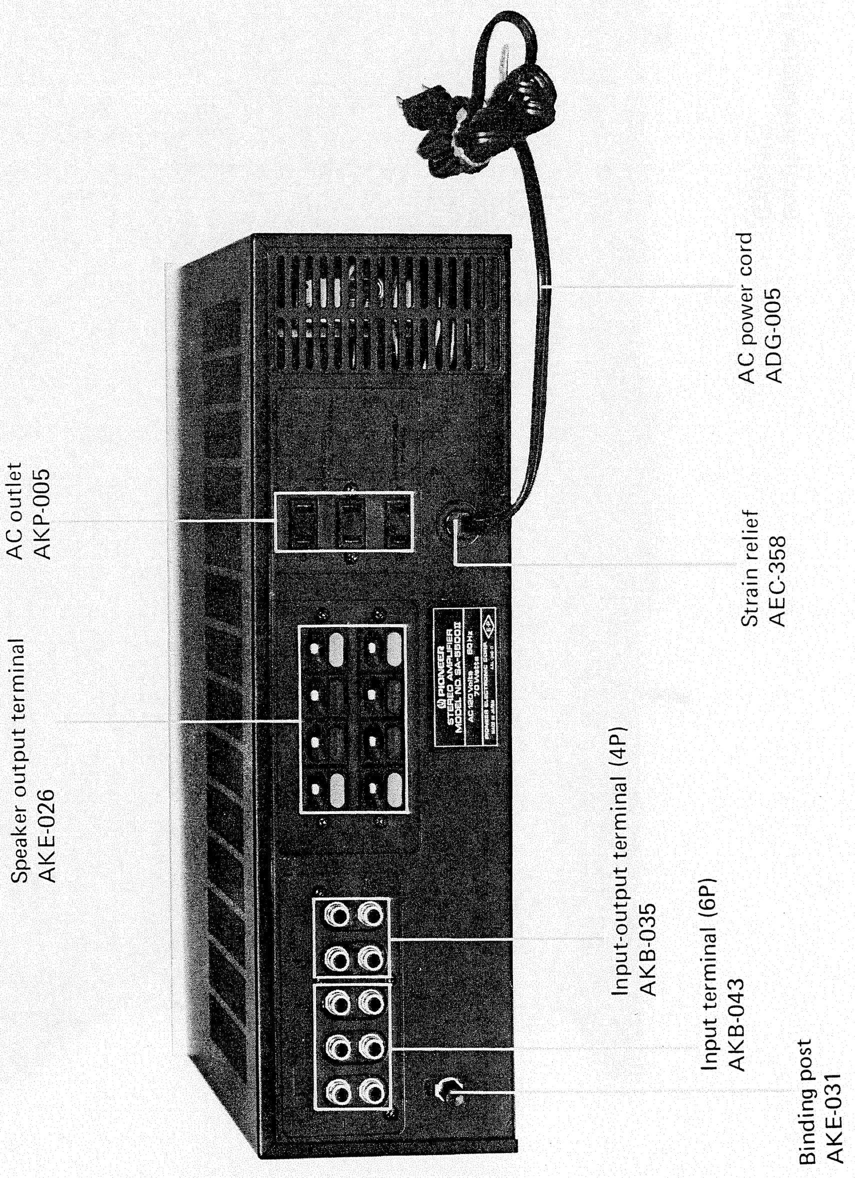
5.2 FRONT VIEW WITH PANEL REMOVED


Rotary switch (FUNCTION)
ASD-064
Variable resistor (VOLUME)
ACV-181
Variable resistor (BALANCE)
ACV-126
Variable resistor (TREBLE)
ACV-182
Variable resistor (BASS)
ACV-182
Lever switch (LOUDNESS)
ASK-120
Lever switch (TAPE MONITOR)
ASK-092
Push switch (SPEAKERS)
ASG-117
Phone jack (PHONES)
AKN-009
Lever switch (POWER)
ASK-108

5.3 TOP VIEW


Equalizer amplifier assembly
GWF-103
Power transformer
ATT-356
Earth assembly
AWX-110
Power amplifier assembly
GWH-103
Tone amplifier assembly
GWG-103

5.4 REAR VIEW


AC outlet
AKP-005
Speaker output terminal
AKE-026
AC power cord
ADG-005
Strain relief
AEC-358
Input-output terminal (4P)
AKB-035
Input terminal (6P)
AKB-043
Binding post
AKE-031

6. CIRCUIT DESCRIPTION

EQUALIZER AMPLIFIER ASSEMBLY

The equalizer amplifier is a 2-stage direct-coupled amplifier comprised of a PNP and an NPN transistors.

A more effective use is made of the power supply voltage, since voltage loss at the 2nd stage is eliminated due to VCE of the 1st stage, an effect gained by employing transistors of different polarity. Maximum permissible input is 120mV (1kHz, 0.3% T.H.D.). And since the collector resistance of the 2nd stage also serves as the emitter resistance of the 1st stage, a 100% DC NFB is applied, producing very high DC stability. Equalizer deviation is less than ±0.5dB (20Hz — 20kHz).

The output of the equalizer amplifier, plus the TUNER and AUX input terminals are selected by the FUNCTION switch, thus connecting to the tone amplifier assembly.

TONE AMPLIFIER ASSEMBLY

Signals from the equalizer amplifier assembly are applied to the TAPE REC terminals and the TAPE MONITOR switch.

The BALANCE CONTROL is a center click-stop no-loss type (HB type). The VOLUME CONTROL is also a click-stop control, with 41 click-stops.

The loudness feature compensates for bass only. The circuit is coupled to the center tap of the VOLUME CONTROL when LOUDNESS is switched ON.

The tone control circuit amplifies the signal to the necessary level by a single NPN transistor. The signal is then applied to a CR type control circuit.

POWER AMPLIFIER ASSEMBLY

The power amplifier makes use of a recently developed monolithic IC (PA 3002). This IC contains protective circuits such as a thermal shutdown circuit and a current limiter circuit. Output is 17.5W (1kHz, 8Ω) for a ±22V supply.

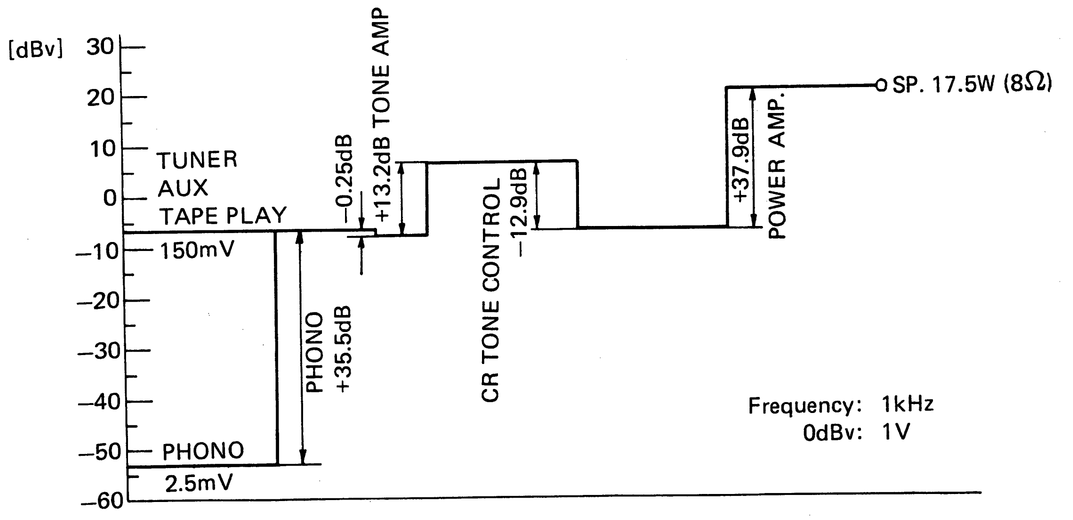
The two sets of speaker terminals (A, B) have separate ON/OFF speaker switches.

POWER SUPPLY

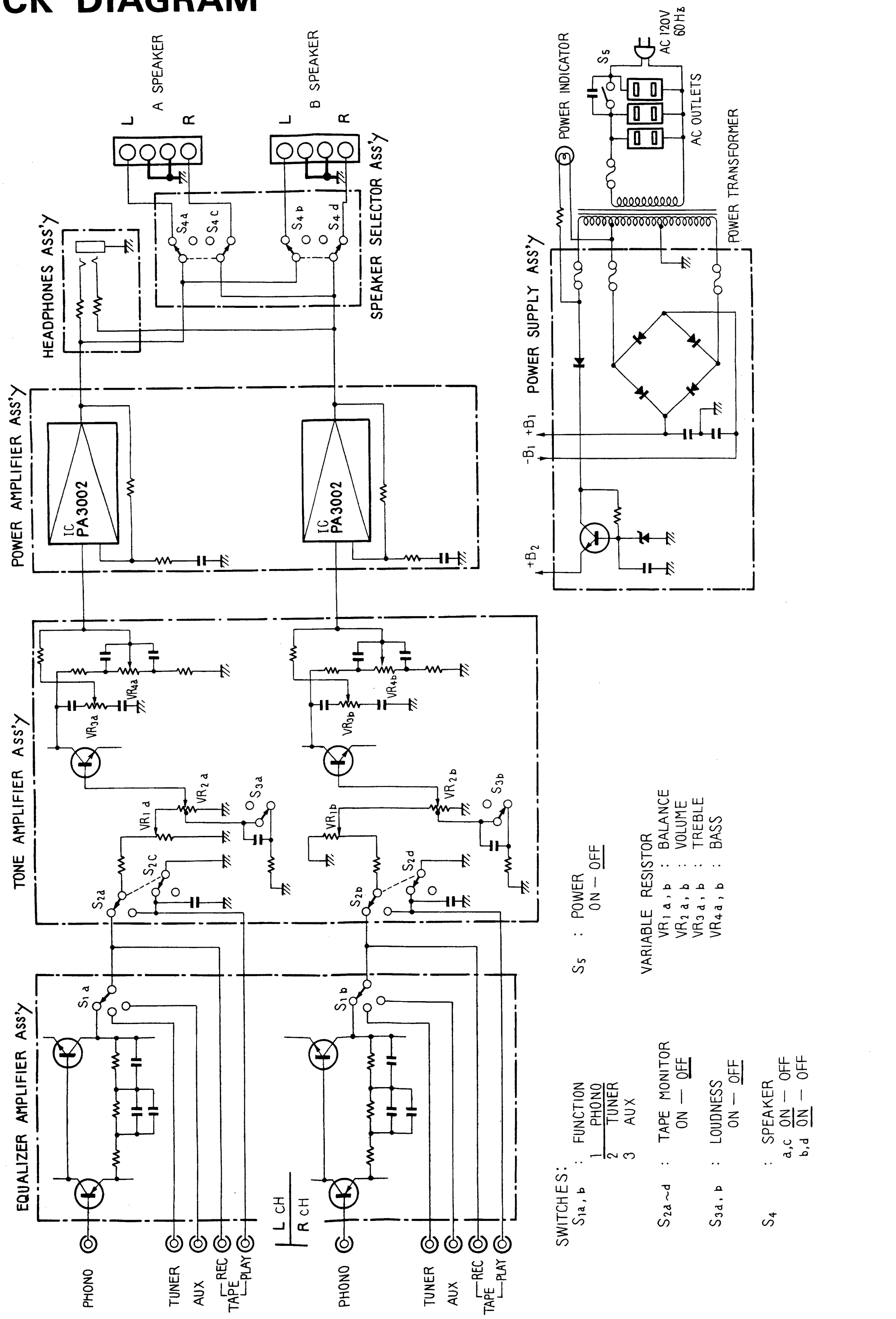
The power for IC power is supplied from the bridged rectifier and the two electrolytic capacitors (4,700μF).

The +B2 for the tone amplifier and equalizer amplifier is supplied via a stabilizer circuit composed of transistor and zener diode.

7. LEVEL DIAGRAM



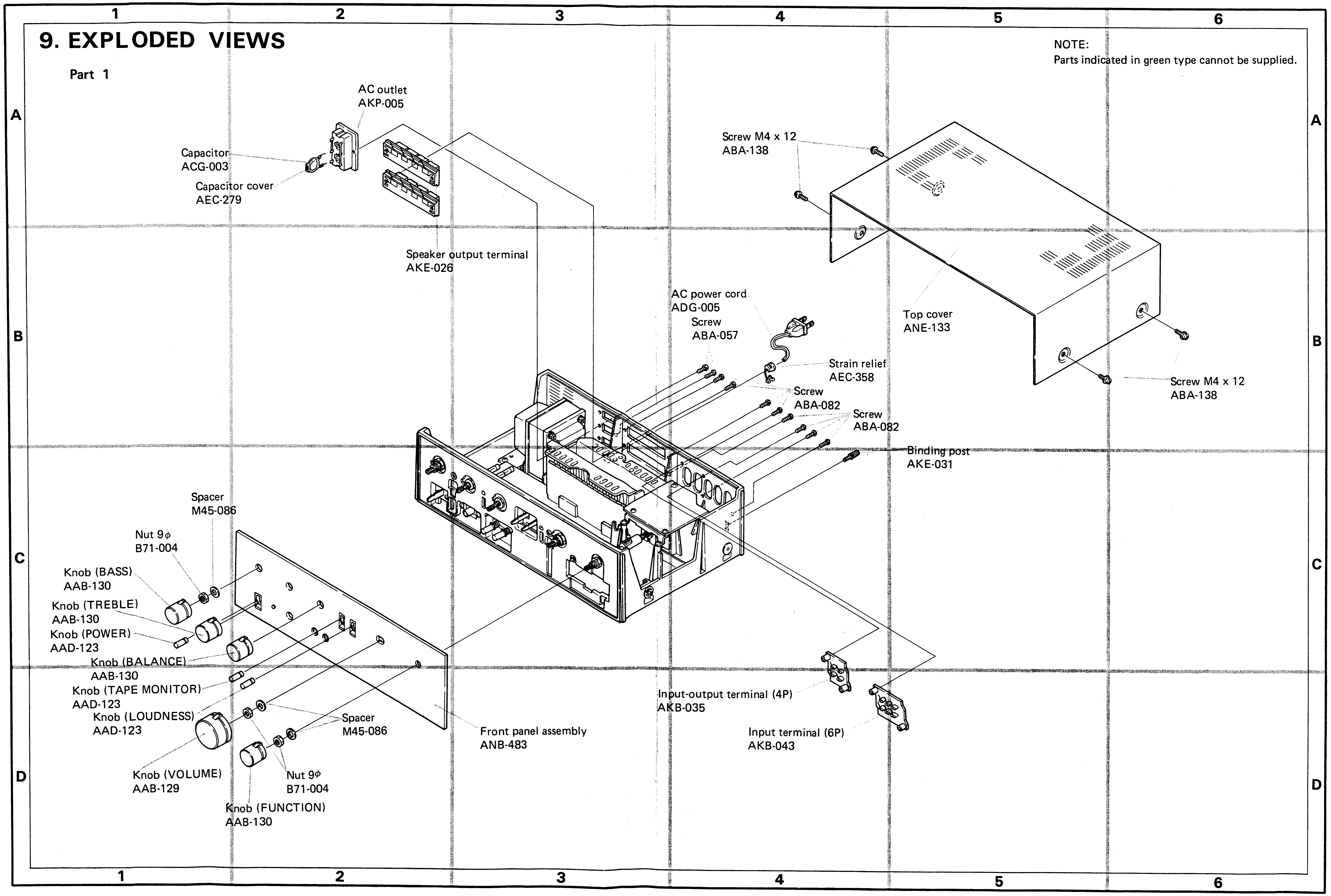
8. BLOCK DIAGRAM


A SPEAKER
B SPEAKER
L
R
SPEAKER SELECTOR ASS'Y
S4a
S4b
S4c
S4d
HEADPHONES ASS'Y
POWER INDICATOR
S5
AC 120V 60Hz
AC OUTLETS
POWER TRANSFORMER
POWER SUPPLY ASS'Y
−B1
+B1
+B2
POWER AMPLIFIER ASS'Y
IC PA3002
TONE AMPLIFIER ASS'Y
VR1a
VR2a
VR3a
VR4a
VR1b
VR2b
VR3b
VR4b
S2a
S2b
S2c
S2d
S3a
S3b
EQUALIZER AMPLIFIER ASS'Y
S1a
S1b
L CH
R CH
PHONO
TUNER
AUX
REC
TAPE PLAY
S5 : POWER
ON — OFF
VARIABLE RESISTOR
VR1a,b : BALANCE
VR2a,b : VOLUME
VR3a,b : TREBLE
VR4a,b : BASS
SWITCHES:
S1a,b : FUNCTION
1 PHONO
2 TUNER
3 AUX
S2a~d : TAPE MONITOR
ON — OFF
S3a,b : LOUDNESS
ON — OFF
S4 : SPEAKER
a,c ON — OFF
b,d ON — OFF

9. EXPLODED VIEWS

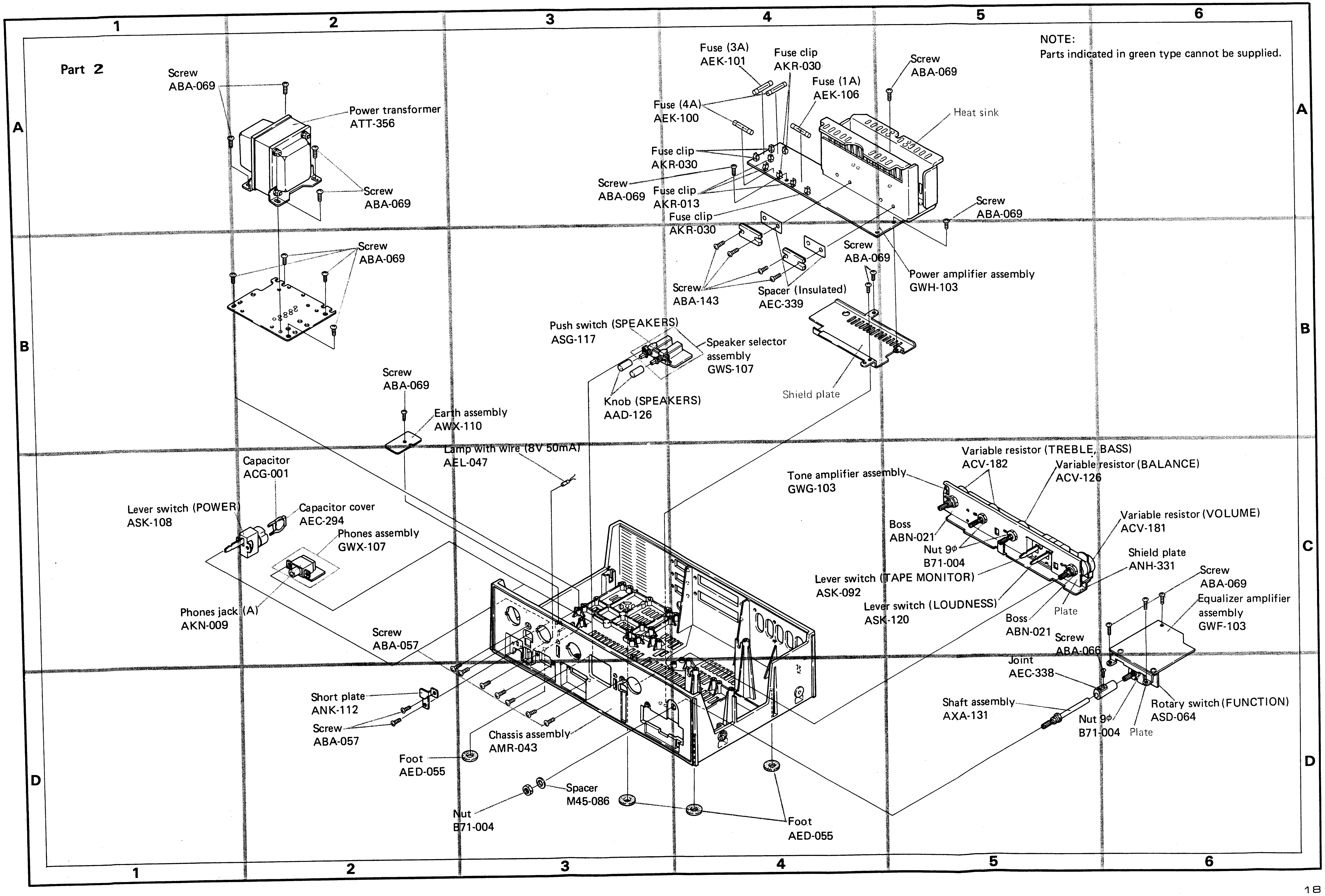
NOTE:
Parts indicated in green type cannot be supplied.

Part 1


1
2
3
4
5
6
A
B
C
D
AC outlet
AKP-005
Capacitor
ACG-003
Capacitor cover
AEC-279
Speaker output terminal
AKE-026
Screw M4 x 12
ABA-138
Top cover
ANE-133
Screw M4 x 12
ABA-138
AC power cord
ADG-005
Screw
ABA-057
Strain relief
AEC-358
Screw
ABA-082
Screw
ABA-082
Binding post
AKE-031
Spacer
M45-086
Nut 9φ
B71-004
Knob (BASS)
AAB-130
Knob (TREBLE)
AAB-130
Knob (POWER)
AAD-123
Knob (BALANCE)
AAB-130
Knob (TAPE MONITOR)
AAD-123
Knob (LOUDNESS)
AAD-123
Spacer
M45-086
Front panel assembly
ANB-483
Knob (VOLUME)
AAB-129
Nut 9φ
B71-004
Knob (FUNCTION)
AAB-130
Input-output terminal (4P)
AKB-035
Input terminal (6P)
AKB-043

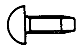
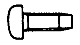
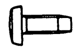
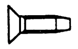
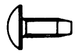
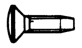
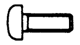
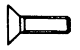
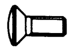
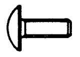
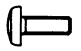
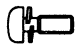
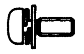
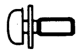
Part 2

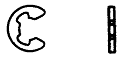
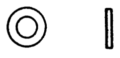
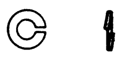
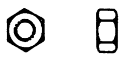
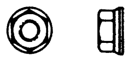
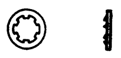
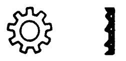
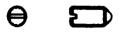
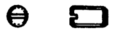
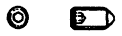
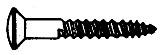
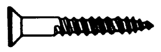
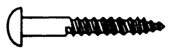
NOTE:
Parts indicated in green type cannot be supplied.


1
2
3
4
5
6
A
B
C
D
Screw
ABA-069
Power transformer
ATT-356
Screw
ABA-069
Screw
ABA-069
Fuse (3A)
AEK-101
Fuse clip
AKR-030
Fuse (1A)
AEK-106
Fuse (4A)
AEK-100
Fuse clip
AKR-030
Screw
ABA-069
Fuse clip
AKR-013
Fuse clip
AKR-030
Screw
ABA-069
Heat sink
Screw
ABA-069
Screw
ABA-069
Screw
ABA-143
Spacer (Insulated)
AEC-339
Power amplifier assembly
GWH-103
Push switch (SPEAKERS)
ASG-117
Speaker selector
assembly
GWS-107
Knob (SPEAKERS)
AAD-126
Shield plate
Screw
ABA-069
Earth assembly
AWX-110
Lamp with wire (8V 50mA)
AEL-047
Capacitor
ACG-001
Capacitor cover
AEC-294
Lever switch (POWER)
ASK-108
Phones assembly
GWX-107
Phones jack (A)
AKN-009
Screw
ABA-057
Short plate
ANK-112
Screw
ABA-057
Chassis assembly
AMR-043
Foot
AED-055
Spacer
M45-086
Nut
B71-004
Foot
AED-055
Variable resistor (TREBLE, BASS)
ACV-182
Variable resistor (BALANCE)
ACV-126
Tone amplifier assembly
GWG-103
Boss
ABN-021
Nut 9ϕ
B71-004
Variable resistor (VOLUME)
ACV-181
Shield plate
ANH-331
Lever switch (TAPE MONITOR)
ASK-092
Lever switch (LOUDNESS)
ASK-120
Boss
ABN-021
Plate
Screw
ABA-069
Equalizer amplifier
assembly
GWF-103
Screw
ABA-066
Joint
AEC-338
Shaft assembly
AXA-131
Nut 9ϕ
B71-004
Plate
Rotary switch (FUNCTION)
ASD-064

NOMENCLATURE OF SCREWS, WASHERS AND NUTS

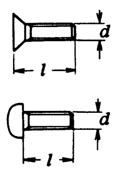
The following symbols stand for screws, washers and nuts as shown in exploded view.

Symbol	Description	Shape
RT	Brazier head tapping screw	
PT	Pan head tapping screw	
BT	Binding head tapping screw	
CT	Countersunk head tapping screw	
TT	Truss head tapping screw	
OCT	Oval countersunk head tapping screw	
PM	Pan head machine screw	
CM	Countersunk head machine screw	
OCM	Oval countersunk head machine screw	
TM	Truss head machine screw	
BM	Binding head machine screw	
PSA	Pan head screw with spring lock washer	
PSB	Pan head screw with spring lock washer and flat washer	
PSF	Pan head screw with flat washer	

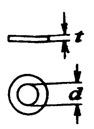
Symbol	Description	Shape
EW	E type washer	
FW	Flat washer	
SW	Spring lock washer	
N	Nut	
WN	Washer faced nut	
ITW	Internal toothed lock washer	
OTW	Outernal toothed lock washer	
SC	Slotted set screw (Cone point)	
SF	Slotted set screw (Flat point)	
HS	Hexagon socket headless set screw	
OCW	Oval countersunk head wood screw	
CW	Countersunk head wood screw	
RW	Round head wood screw	

EXAMPLE

PM · 3x8
length in mm (l)
diameter in mm (d)
Symbol



FW · 9ϕx1^t
thickness in mm (t)
diameter in mm (d)
Symbol



10. SCHEMATIC DIAGRAMS, P.C. BOARD PATTERNS AND PARTS LIST

10.1 SCHEMATIC DIAGRAM AND MISCELLANEOUS PARTS

NOTE:
- * *Capacitors: in μF unless otherwise noted p : pF.*
- * *Resistors: in Ω, 1/4W unless otherwise noted k : kΩ, M : MΩ.*

Miscellaneous Parts List

SWITCH

Symbol	Description	Part No.
S1	Lever switch (POWER)	ASK-108

TRANSFORMER

Symbol	Description	Part No.
T1	Power transformer	ATT-356

CAPACITORS

Symbol	Description	Part No.
C1	Ceramic 0.01 250V	ACG-001
C2	Ceramic 0.01 140V	ACG-003

LAMP AND FUSES

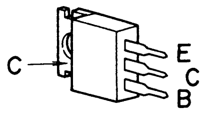
Symbol	Description	Part No.
	Lamp with wire 8V 50mA	AEL-047
FU1	Fuse 3A	AEK-101
FU2	Fuse 4A	AEK-100
FU3	Fuse 4A	AEK-100
FU4	Fuse 1A	AEK-106

ASSEMBLIES

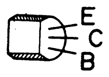
Symbol	Description	Part No.
	Equalizer amplifier assembly	GWF-103
	Tone amplifier assembly	GWG-103
	Power amplifier assembly	GWH-103
	Headphone assembly	GWX-107
	Speaker selector assembly	GWS-107
	Earth assembly	AWX-110

External Appearance of Transistors and IC

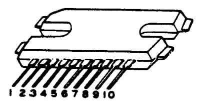
2SC1626



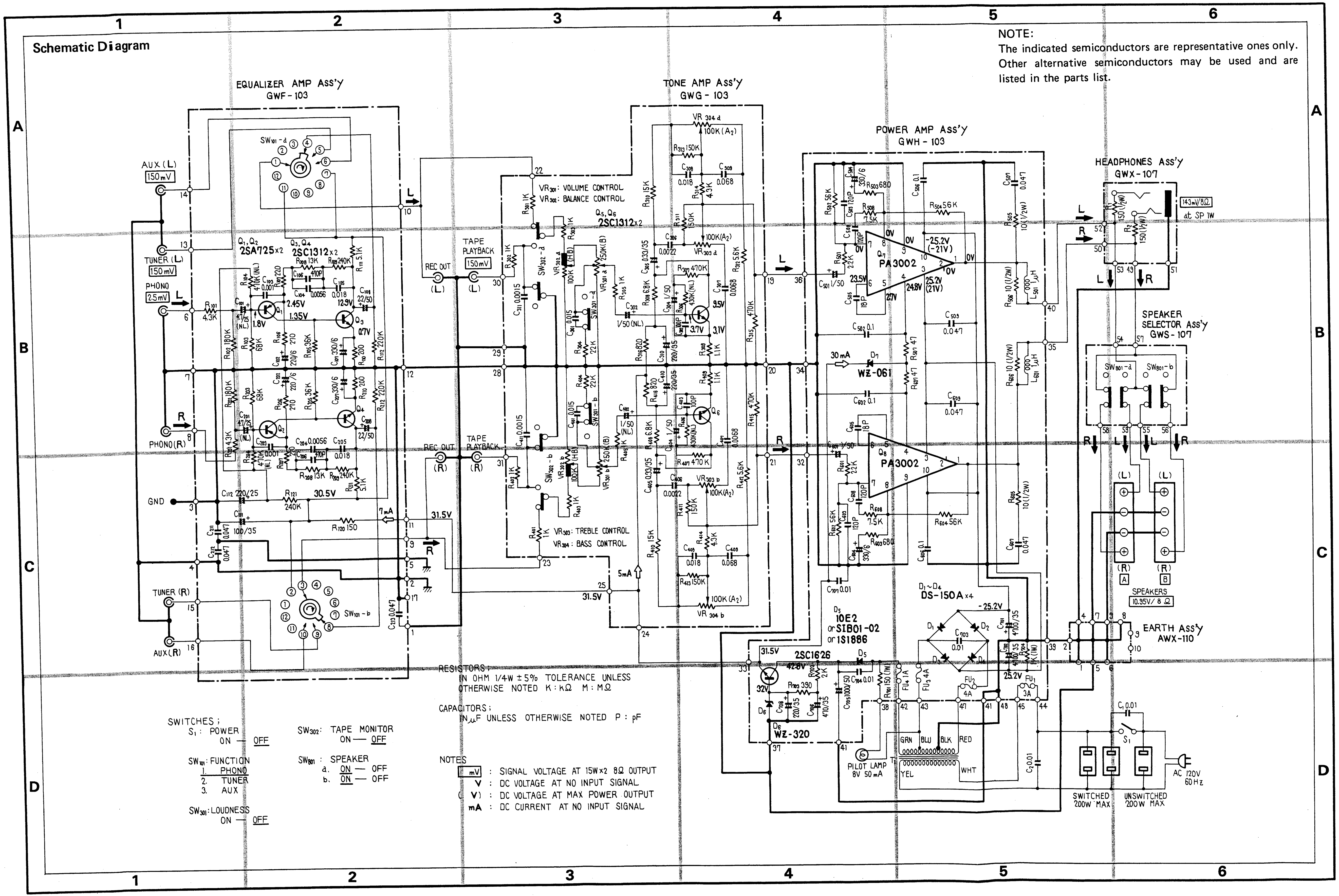
2SA725
2SC1312



PA3002



Schematic Diagram


1
2
3
4
5
6
A
B
C
D
EQUALIZER AMP Ass'y
GWF-103
TONE AMP Ass'y
GWG-103
POWER AMP Ass'y
GWH-103
HEADPHONES Ass'y
GWX-107
SPEAKER SELECTOR Ass'y
GWS-107
EARTH Ass'y
AWX-110
AUX (L)
150mV
TUNER (L)
150mV
PHONO
2.5mV
PHONO (R)
GND
TUNER (R)
AUX (R)
SW101-a
SW101-b
Q1, Q2
2SA725x2
Q3, Q4
2SC1312x2
REC OUT (L)
TAPE PLAYBACK
150mV
(L)
REC OUT (R)
TAPE PLAYBACK (R)
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
Q5, Q6
2SC1312x2
SW302-a
SW302-b
SW301-a
SW301-b
VR303: TREBLE CONTROL
VR304: BASS CONTROL
VR304-a
100K (A2)
VR303-a
VR303-b
VR304-b
Q7
PA3002
Q8
PA3002
-25.2V
(-21V)
25.2V
(21V)
D7
WZ-061
30mA
7mA
5mA
31.5V
30.5V
143mV/8Ω
at SP 1W
SW801-a
SW801-b
SPEAKERS
10.95V/8Ω
(L)
(R)
A
B
D1~D4
DS-150A x4
D5
10E2
or SIB01-02
or 1S1886
2SC1626
D6
WZ-320
FU1
3A
FU2
4A
FU3 4A
FU4 1A
PILOT LAMP
8V 50mA
GRN
BLU
BLK
RED
YEL
WHT
S1
SWITCHED
200W MAX
UNSWITCHED
200W MAX
AC 120V
60Hz

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.

RESISTORS;
IN OHM 1/4W ±5% TOLERANCE UNLESS
OTHERWISE NOTED K : kΩ M : MΩ

CAPACITORS;
IN μF UNLESS OTHERWISE NOTED P : pF

SWITCHES;
S1 : POWER
ON — OFF

SW101: FUNCTION
1. PHONO
2. TUNER
3. AUX

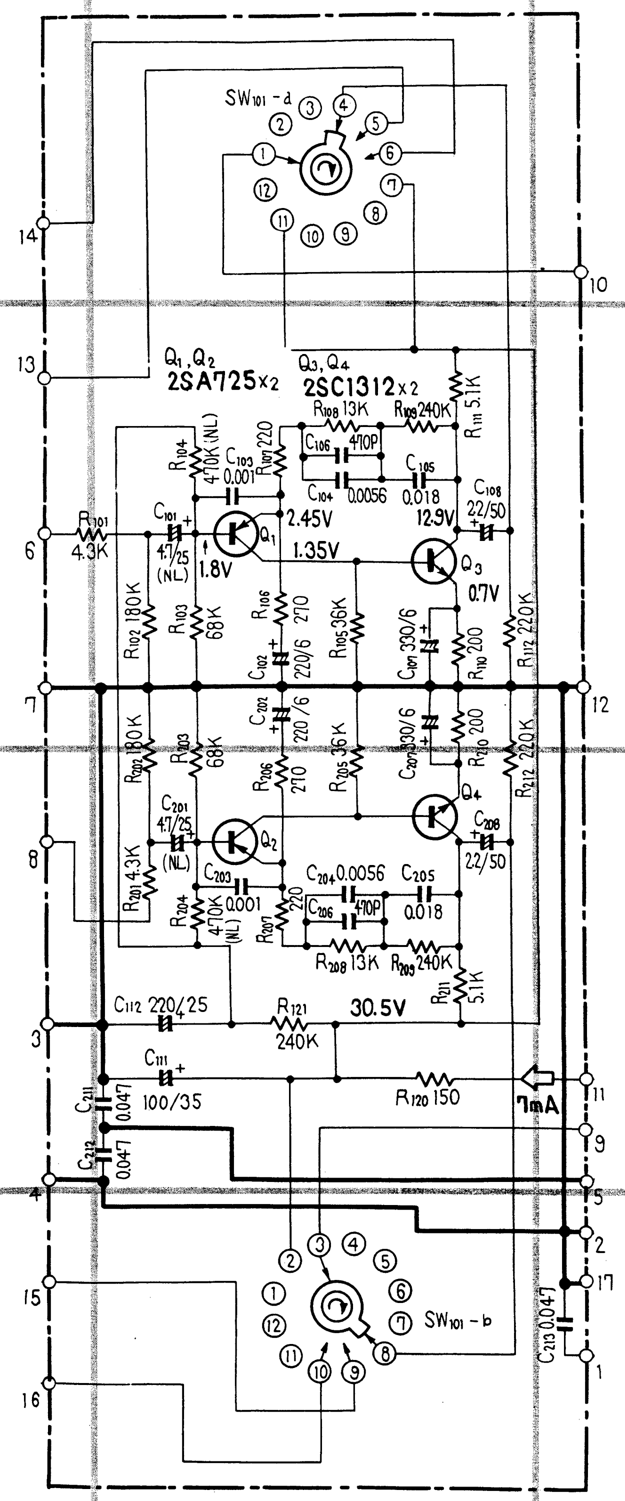
SW301: LOUDNESS
ON — OFF

SW302: TAPE MONITOR
ON — OFF

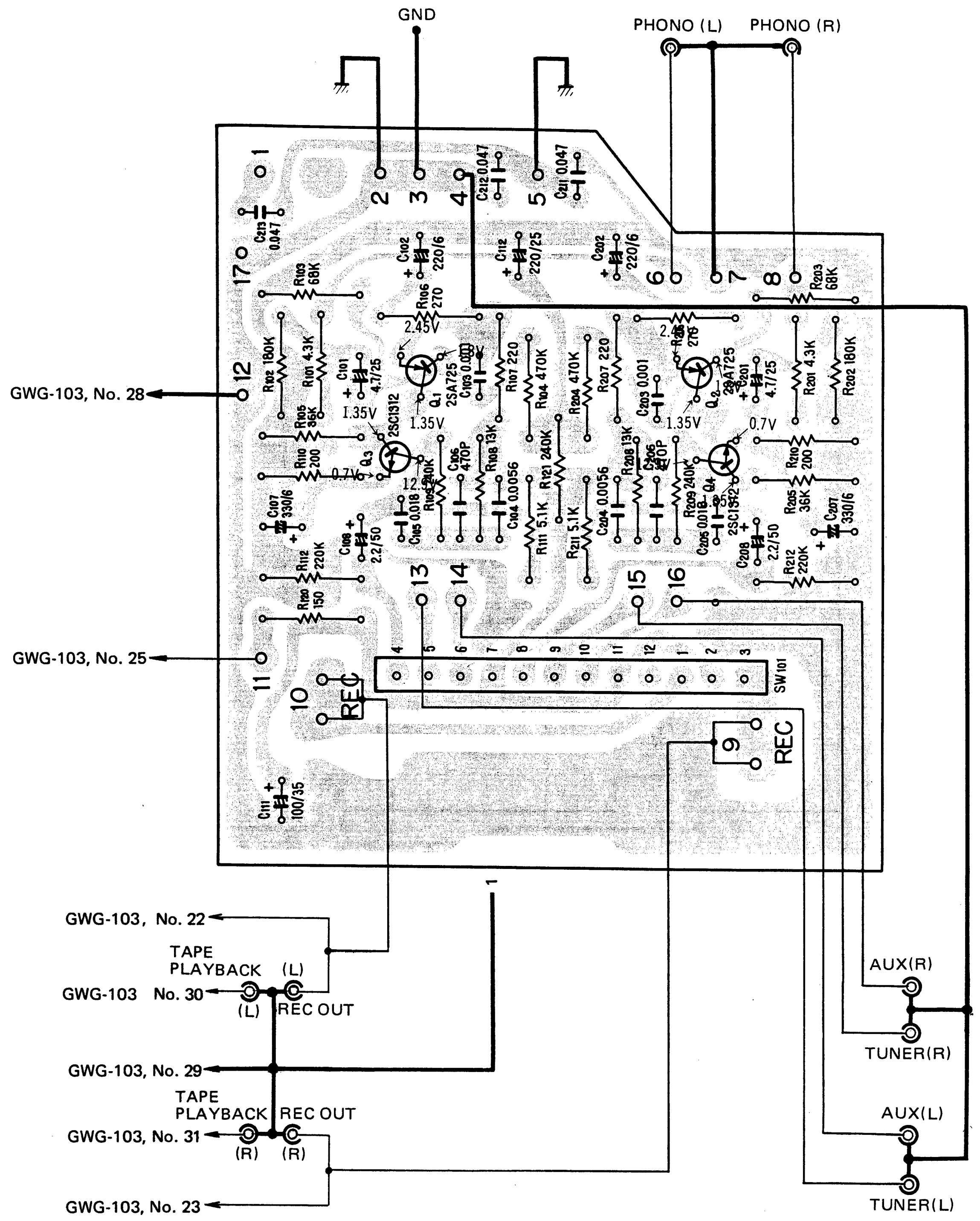
SW801 : SPEAKER
a. ON — OFF
b. ON — OFF

NOTES
mV : SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
V : DC VOLTAGE AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT MAX POWER OUTPUT
mA : DC CURRENT AT NO INPUT SIGNAL

10.2 EQUALIZER AMPLIFIER ASSEMBLY (GWF-103)



SW101 - a
Q1, Q2
2SA725×2
Q3, Q4
2SC1312×2
R101 4.3K
C101 4.7/25 (NL)
R102 180K
R103 68K
R104 470K (NL)
C103 0.001
R107 220
R106 270
C102 220/6
R105 36K
R108 13K
R109 240K
C106 470P
C104 0.0056
C105 0.018
R111 5.1K
C108 22/50
C107 330/6
R110 200
R112 220K
1.8V
2.45V
1.35V
12.9V
0.7V
R201 4.3K
R202 180K
R203 68K
R204 470K (NL)
C201 4.7/25 (NL)
C202 220/6
C203 0.001
R206 270
R205 36K
R207 220
C204 0.0056
C205 0.018
C206 470P
R208 13K
R209 240K
R211 5.1K
C207 330/6
R210 200
R212 220K
C208 22/50
C112 220/25
R121 240K
30.5V
C111 100/35
R120 150
7mA
C211 0.047
C212 0.047
C213 0.047
SW101 - b
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17



GND
PHONO (L)
PHONO (R)
GWG-103, No. 28
GWG-103, No. 25
GWG-103, No. 22
TAPE PLAYBACK (L)
GWG-103 No. 30
REC OUT (L)
GWG-103, No. 29
TAPE PLAYBACK (R)
REC OUT (R)
GWG-103, No. 31
GWG-103, No. 23
AUX(R)
TUNER(R)
AUX(L)
TUNER(L)
REC
SW101
2SA725
2SC1312
2.45V
1.35V
0.7V
12.9V
C212 0.047
C211 0.047
C213 0.047
C111 100/35
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Equalizer Amplifier Assembly (GWF-103)

SWITCH AND OTHERS

Symbol	Description	Part No.
SW101	Rotary switch (FUNCTION) Switch-held metal Nut 9ϕ	ASD-064 ANF-487 B71-004

CAPACITORS

Symbol	Description			Part No.
C101	Electrolytic	4.7	25V	CEANL 4R7P 25
C102	Electrolytic	220	6V	CEA 221P 6
C103	Ceramic	1000p	50V	CKDYB 102K 50
C104	Mylar	5600p	50V	CQMA 562J 50
C105	Mylar	0.018	50V	CQMA 183J 50
C106	Ceramic	470p	50V	CKDYB 471K 50
C107	Electrolytic	330	6V	CEA 331P 6
C108	Electrolytic	2.2	50V	CEA 2R2P 50
C111	Electrolytic	100	35V	CEA 101P 35
C112	Electrolytic	220	25V	CEA 221P 25
C201	Electrolytic	4.7	25V	CEANL 4R7P 25
C202	Electrolytic	220	6V	CEA 221P 6
C203	Ceramic	1000p	50V	CKDYB 102K 50
C204	Mylar	5600p	50V	CQMA 562J 50
C205	Mylar	0.018	50V	CQMA 183J 50
C206	Ceramic	470p	50V	CKDYB 471K 50
C207	Electrolytic	330	6V	CEA 331P 6
C208	Electrolytic	2.2	50V	CEA 2R2P 50
C211	Ceramic	0.047	50V	CKDYF 473Z 50
C212	Ceramic	0.047	50V	CKDYF 473Z 50
C213	Ceramic	0.047	50V	CKDYF 473Z 50

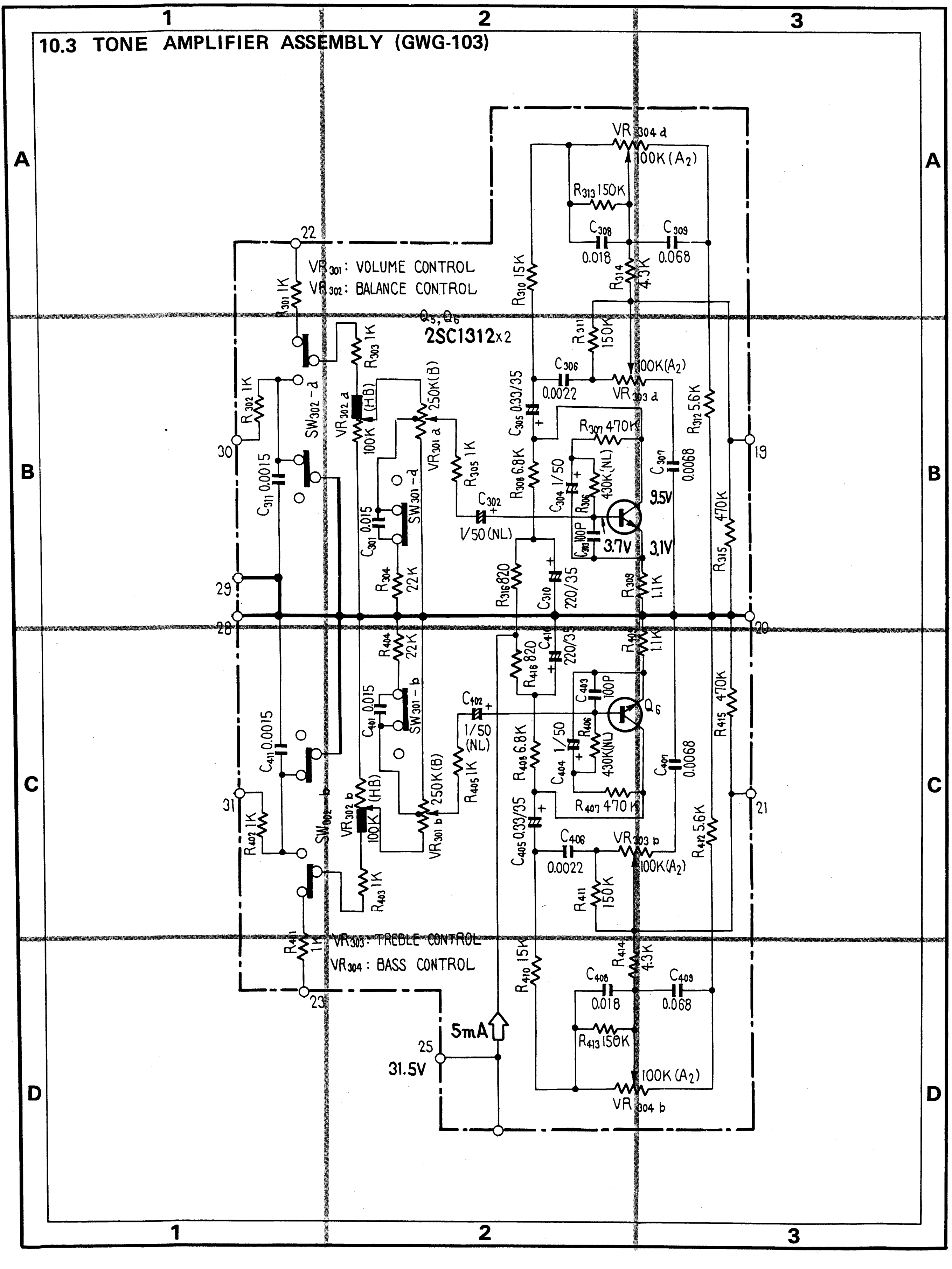
RESISTORS

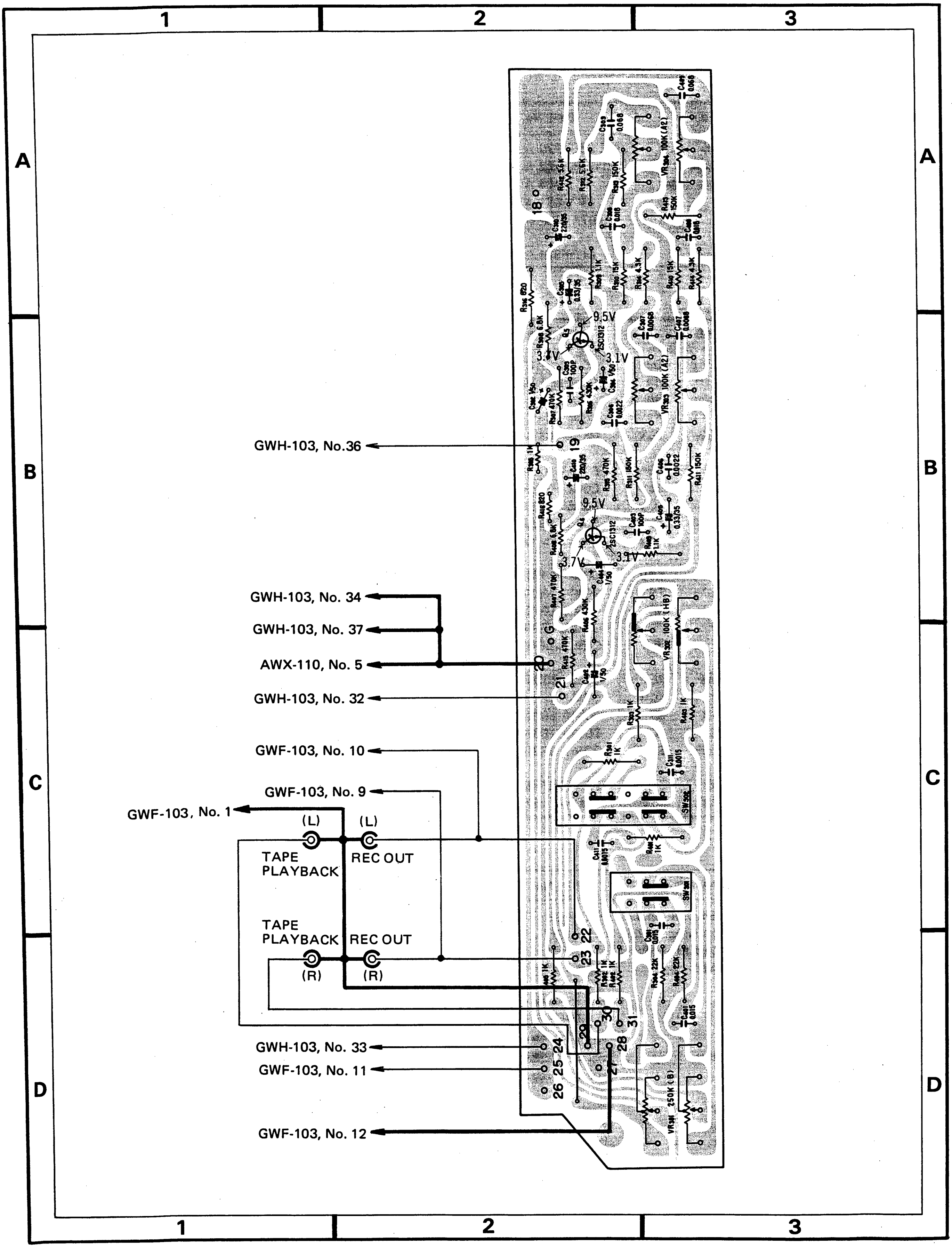
Symbol	Description		Part No.
R101	Carbon film	4.3k	RD¼PS 432J
R102	Carbon film	180k	RD¼PS 184J
R103	Carbon film	68k	RD¼PS 683J
R104	Carbon film	470k	RD¼PS 474J NL
R105	Carbon film	36k	RD¼PS 363J
R106	Carbon film	270	RD¼PS 271J
R107	Carbon film	220	RD¼PS 221J
R108	Carbon film	13k	RD¼PS 133J
R109	Carbon film	240k	RD¼PS 244J
R110	Carbon film	200	RD¼PS 201J
R111	Carbon film	5.1k	RD¼PS 512J
R112	Carbon film	220k	RD¼PS 224J
R120	Carbon film	150	RD¼PS 151J
R121	Carbon film	240k	RD¼PS 244J
R201	Carbon film	4.3k	RD¼PS 432J
R202	Carbon film	180k	RD¼PS 184J
R203	Carbon film	68k	RD¼VS 683J
R204	Carbon film	470k	RD¼PS 474J NL
R205	Carbon film	36k	RD¼PS 363J
R206	Carbon film	270	RD¼PS 271J
R207	Carbon film	220	RD¼PS 221J
R208	Carbon film	13k	RD¼PS 133J
R209	Carbon film	240k	RD¼PS 244J
R210	Carbon film	200	RD¼PS 201J
R211	Carbon film	5.1k	RD¼PS 512J
R212	Carbon film	220k	RD¼PS 224J

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SA725-F or G
Q2	Transistor	2SA725-F or G
Q3	Transistor	2SC1312-F or G
Q4	Transistor	2SC1312-F or G

10.3 TONE AMPLIFIER ASSEMBLY (GWG-103)


1
2
3
A
B
C
D
22
23
19
20
21
25
28
29
30
31
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
VR303: TREBLE CONTROL
VR304: BASS CONTROL
Q5, Q6
2SC1312x2
Q6
R301 1K
R302 1K
R303 1K
R304 22K
R305 1K
R306 430K (NL)
R307 470K
R308 6.8K
R309 1.1K
R310 15K
R311 150K
R312 5.6K
R313 150K
R314 4.3K
R315 470K
R316 820
R401 1K
R402 1K
R403 1K
R404 22K
R405 1K
R406 430K (NL)
R407 470K
R408 6.8K
R409 1.1K
R410 15K
R411 150K
R412 5.6K
R413 150K
R414 4.3K
R415 470K
R416 820
C301 0.015
C302 1/50 (NL)
C303 100P
C304 1/50
C305 0.33/35
C306 0.0022
C307 0.0068
C308 0.018
C309 0.068
C310 220/35
C311 0.0015
C401 0.015
C402 1/50 (NL)
C403 100P
C404 1/50
C405 0.33/35
C406 0.0022
C407 0.0068
C408 0.018
C409 0.068
C410 220/35
C411 0.0015
VR301 a 250K(B)
VR301 b 250K(B)
VR302 a 100K (HB)
VR302 b 100K (HB)
VR303 a 100K(A2)
VR303 b 100K(A2)
VR304 a 100K (A2)
VR304 b 100K (A2)
SW301-a
SW301-b
SW302-a
SW302
9.5V
3.7V
3.1V
5mA
31.5V


1
2
3
A
B
C
D
GWH-103, No.36
GWH-103, No. 34
GWH-103, No. 37
AWX-110, No. 5
GWH-103, No. 32
GWF-103, No. 10
GWF-103, No. 9
GWF-103, No. 1
(L)
(L)
TAPE PLAYBACK
REC OUT
TAPE PLAYBACK
REC OUT
(R)
(R)
GWH-103, No. 33
GWF-103, No. 11
GWF-103, No. 12
9.5V
3.7V
3.1V
9.5V
3.7V
3.1V
2SC1312
2SC1312
VR304 100K (A2)
VR303 100K (A2)
VR302 100K (HB)
VR301 250K (B)
SW302
SW301
18
19
20
21
22
23
24
25
26
27
28
29
30
31
G

Tone Amplifier Assembly (GWG-103)

SWITCHES AND OTHERS

Symbol	Description	Part No.
SW301	Lever switch (LOUDNESS)	ASK-120
SW302	Lever switch (TAPE MONITOR)	ASK-092
	Variable resistor-held metal	ANF-488
	Boss	ABN-021
	Nut 9ϕ	B71-004
	Shield board	ANH-331

CAPACITORS

Symbol	Description	Part No.
C301	Mylar 0.015 50V	CQMA 153J 50
C302	Electrolytic 1 50V	CEANL 010P 50
C303	Ceramic 100p 50V	CCDSL 101K 50
C304	Electrolytic 1 50V	CEA 010P 50
C305	Electrolytic 0.33 35V	CSZA R33M 35
C306	Mylar 2200p 50V	CQMA 222J 50
C307	Mylar 6800p 50V	CQMA 682J 50
C308	Mylar 0.018 50V	CQMA 183J 50
C309	Mylar 0.068 50V	CQMA 683J 50
C310	Electrolytic 220 35V	CEA 221P 35
C311	Ceramic 1500p 50V	CKDYB 152K 50
C401	Mylar 0.015 50V	CQMA 153J 50
C402	Electrolytic 1 50V	CEANL 010P 50
C403	Ceramic 100p 50V	CCDSL 101K 50
C404	Electrolytic 1 50V	CEA 010P 50
C405	Electrolytic 0.33 35V	CSZA R33M 35
C406	Mylar 2200p 50V	CQMA 222J 50
C407	Mylar 6800p 50V	CQMA 682J 50
C408	Mylar 0.018 50V	CQMA 183J 50
C409	Mylar 0.068 50V	CQMA 683J 50
C410	Electrolytic 220 35V	CEA 221P 35
C411	Ceramic 1500p 50V	CKDYB 152K 50

RESISTORS

Symbol	Description	Part No.
VR301	Variable resistor (VOLUME) 250k	ACV-181
VR302	Variable resistor (BALANCE) 100k	ACV-126
VR303	Variable resistor (TREBLE) 100k	ACV-182
VR304	Variable resistor (BASS) 100k	ACV-182
R301	Carbon film 1k	RD¼PS 102J
R302	Carbon film 1k	RD¼PS 102J
R303	Carbon film 1k	RD¼PS 102J
R304	Carbon film 22k	RD¼PS 223J
R305	Carbon film 1k	RD¼VS 102J
R306	Carbon film 430k	RD¼PS 434J NL
R307	Carbon film 470k	RD¼PS 474J
R308	Carbon film 6.8k	RD¼PS 682J
R309	Carbon film 1.1k	RD¼PS 112J
R310	Carbon film 15k	RD¼PS 153J
R311	Carbon film 150k	RD¼PS 154J
R312	Carbon film 5.6k	RD¼PS 562J
R313	Carbon film 150k	RD¼PS 154J
R314	Carbon film 4.3k	RD¼PS 432J
R315	Carbon film 470k	RD¼PS 474J
R316	Carbon film 820	RD¼PS 821J
R401	Carbon film 1k	RD¼PS 102J
R402	Carbon film 1k	RD¼PS 102J
R403	Carbon film 1k	RD¼PS 102J
R404	Carbon film 22k	RD¼PS 223J
R405	Carbon film 1k	RD¼PS 102J
R406	Carbon film 430k	RD¼PS 434J NL
R407	Carbon film 470k	RD¼PS 474J
R408	Carbon film 6.8k	RD¼VS 682J
R409	Carbon film 1.1k	RD¼PS 112J
R410	Carbon film 15k	RD¼PS 153J
R411	Carbon film 150k	RD¼PS 154J
R412	Carbon film 5.6k	RD¼PS 562J
R413	Carbon film 150k	RD¼PS 154J
R414	Carbon film 4.3k	RD¼PS 432J
R415	Carbon film 470k	RD¼PS 474J
R416	Carbon film 820	RD¼VS 821J

SEMICONDUCTORS

Symbol	Description	Part No.
Q5	Transistor	2SC1312-F or G
Q6	Transistor	2SC1312-F or G

10.4 POWER AMPLIFIER ASSEMBLY (GWH-103)

COILS AND OTHERS

Symbol	Description		Part No.
L501	AF choke coil	1µH	ATH-011
L601	AF choke coil	1µH	ATH-011
	Heat sink		ANH-332
	Spacer		AEC-339
	Fuse clip (large)		AKR-013
	Fuse clip		AKR-030
	Screw 3 x 12 (MC)		ABA-143

CAPACITORS

Symbol	Description			Part No.
C501	Electrolytic	1	50V	CEA 010P 50
C502	Mylar	0.1	50V	CQMA 104J 50
C503	Ceramic	120p	50V	CCDSL 121K 50
C504	Electrolytic	330	6V	CEA 331P 6
C505	Ceramic	18p	50V	CCDSL 180J 50
C506	Mylar	0.1	50V	CQMA 104J 50
C507	Mylar	0.047	50V	CQMA 473J 50
C508	Ceramic	120p	50V	CCDSL 121K 50
C509	Ceramic	0.047	150V	ACG-009
C601	Electrolytic	1	50V	CEA 010P 50
C602	Mylar	0.1	50V	CQMA 104J 50
C603	Ceramic	120p	50V	CCDSL 121K 50
C604	Electrolytic	330	6V	CEA 331P 6
C605	Ceramic	18p	50V	CCDSL 180J 50
C606	Mylar	0.1	50V	CQMA 104J 50
C607	Mylar	0.047	50V	CQMA 473J 50
C608	Ceramic	120p	50V	CCDSL 121K 50
C609	Ceramic	0.047	150V	ACG-009
C701	Electrolytic	4700	35V	ACH-043
C702	Electrolytic	4700	35V	ACH-043
C703	Ceramic	0.01	150V	ACG-004
C704	Ceramic	0.01	150V	ACG-004
C705	Electrolytic	1000	50V	CEA 102P 50
C706	Electrolytic	470	35V	CEA 471P 35
C707	Ceramic	0.01	50V	CKDYB 103K 50
C708	Electrolytic	220	35V	CEA 221P 35

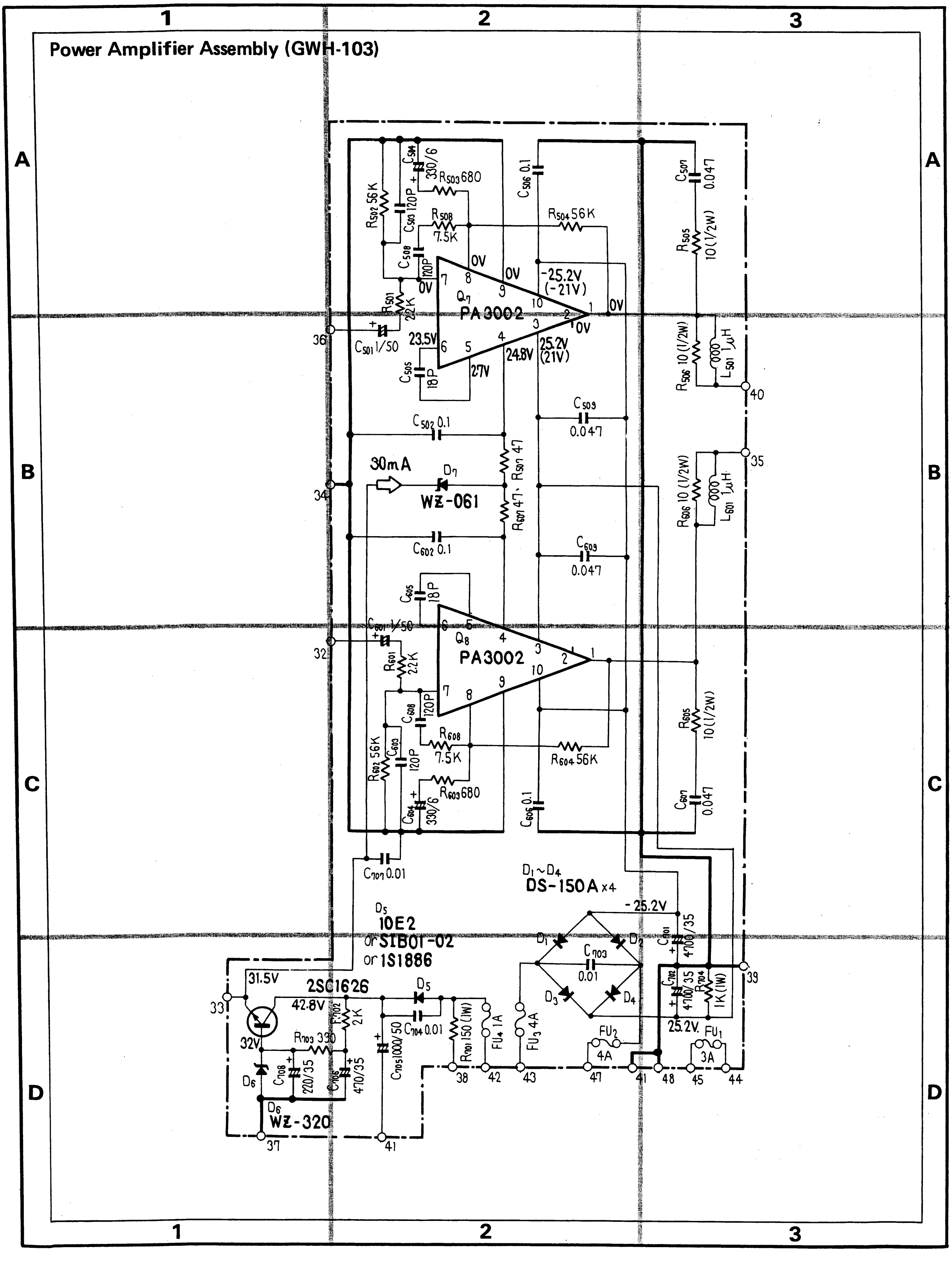
RESISTORS

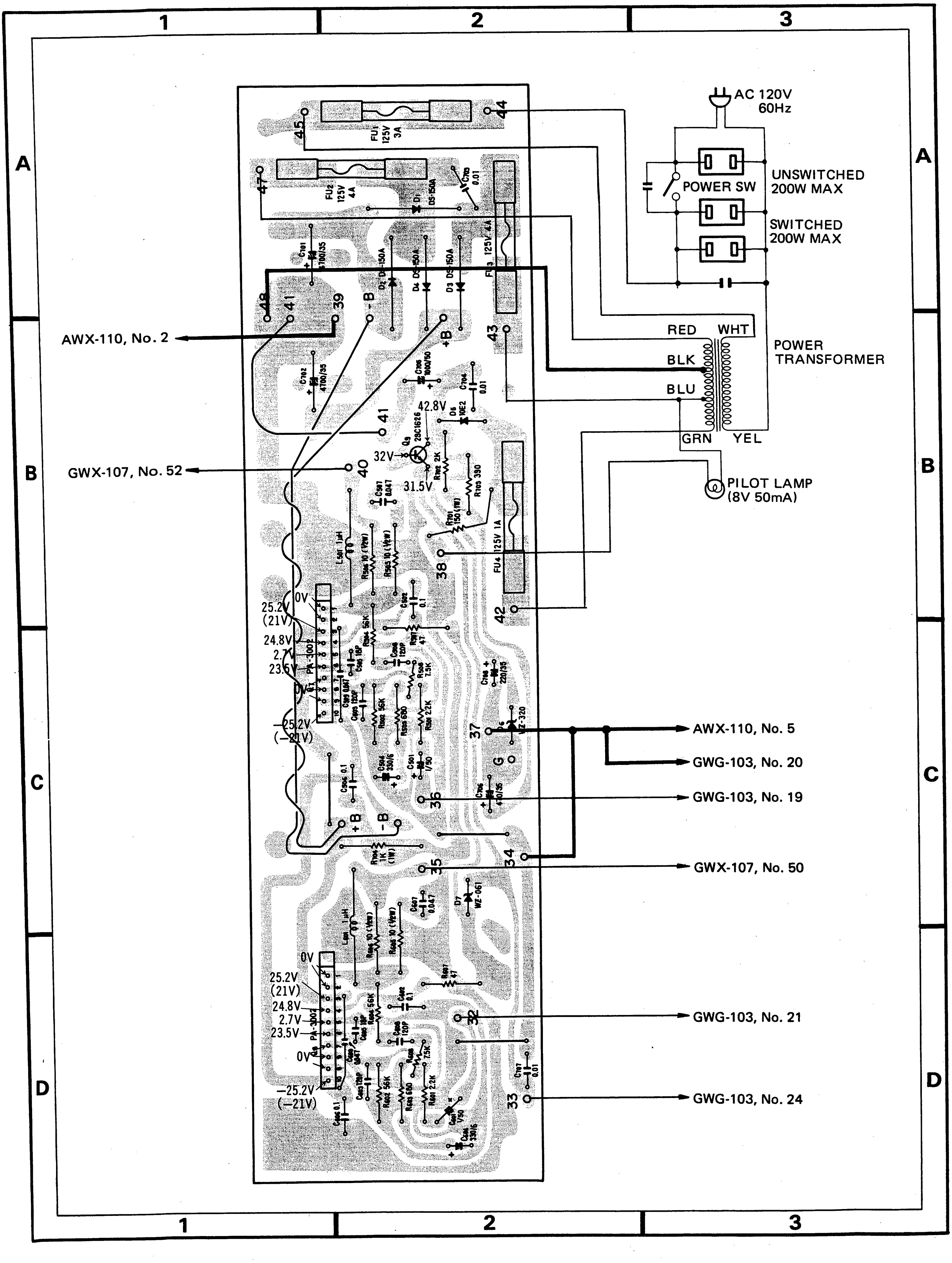
Symbol	Description			Part No.
R501	Carbon film	2.2k		RD¼PS 222J
R502	Carbon film	56k		RD¼PS 563J
R503	Carbon film	680		RD¼PS 681J
R504	Carbon film	56k		RD¼PS 563J
R505	Carbon film	10	½W	RD½PS 100J
R506	Carbon film	10	½W	RD½PS 100J
R507	Carbon film	47		RD¼PS 470J
R508	Carbon film	7.5k		RD¼PM 752J
R601	Carbon film	2.2k		RD¼PS 222J
R602	Carbon film	56k		RD¼PS 563J
R603	Carbon film	680		RD¼PS 681J
R604	Carbon film	56k		RD¼PS 563J
R605	Carbon film	10	½W	RD½PS 100J
R606	Carbon film	10	½W	RD½PS 100J
R607	Carbon film	47		RD¼PS 470J
R608	Carbon film	7.5k		RD¼PM 752J
R701	Metal oxide	150	1W	RS1P 151J
R702	Carbon film	2k		RD¼PS 202J
R703	Carbon film	39		RD¼PS 390J
R704	Metal oxide	1k	1W	RS1P 102J

SEMICONDUCTORS

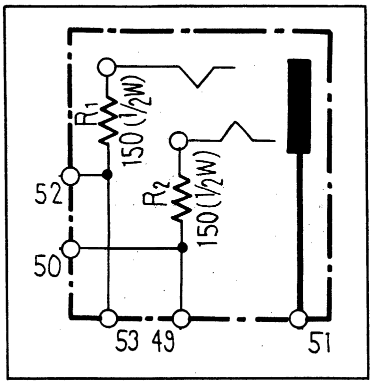
Symbol	Description	Part No.
Q7	IC	PA3002-A
Q8	IC	PA3002-A
Q9	Transistor	2SC1626-O or Y
D1	Diode	DS-150A
D2	Diode	DS-150A
D3	Diode	DS-150A
D4	Diode	DS-150A
D5	Diode	10E2 (1S1886 or SIB01-02)
D6	Zener diode	WZ-320
D7	Zener diode	WZ-061

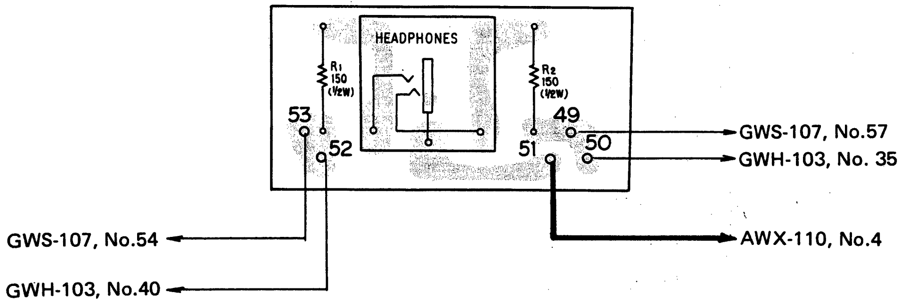
Power Amplifier Assembly (GWH-103)


1
2
3
A
B
C
D
C504 330/6
R503 680
R502 56K
C503 120P
R508 7.5K
C508 120P
C506 0.1
R504 56K
C507 0.047
R505 10 (1/2W)
0V
-25.2V (-21V)
Q7
PA3002
R501 2.2K
C501 1/50
23.5V
24.8V
25.2V (21V)
27V
C505 18P
R506 10 (1/2W)
L501 1μH
C509 0.047
C502 0.1
30mA
D7
WZ-061
R507 4.7
R607 4.7
C602 0.1
C609 0.047
R606 10 (1/2W)
L601 1μH
C605 18P
C601 1/50
Q8
PA3002
R601 2.2K
C608 120P
R608 7.5K
R604 56K
R605 10 (1/2W)
R602 56K
C603 120P
R603 680
C604 330/6
C606 0.1
C607 0.047
C707 0.01
D1~D4
DS-150A x4
-25.2V
C701 4700/35
C703 0.01
D5
10E2
or S1B01-02
or 1S1886
31.5V
2SC1626
42.8V
R702 2K
R703 330
32V
C708 220/35
C706 470/35
C705 1000/50
C704 0.01
R701 150 (1W)
FU4 1A
FU3 4A
FU2 4A
FU1 3A
C702 4700/35
R704 1K (1W)
25.2V
D6
WZ-320
36
34
32
33
37
41
38
42
43
47
41
48
45
44
39
35
40
1
2
3
4
5
6
7
8
9
10


1
2
3
A
B
C
D
AC 120V 60Hz
UNSWITCHED 200W MAX
POWER SW
SWITCHED 200W MAX
RED
WHT
BLK
BLU
GRN
YEL
POWER TRANSFORMER
PILOT LAMP (8V 50mA)
FU1 125V 3A
FU2 125V 4A
FU3 125V 4A
FU4 125V 1A
D1 DS-150A
D2 DS-150A
D3 DS-150A
D4 DS-150A
D5 10E2
D6 WZ-320
D7 WZ-061
C701 4700/35
C702 4700/35
C703 0.01
C704 0.01
C705 1000/50
C706 470/35
C707 0.01
C708 220/35
Q3 2SC1626
R702 2K
R703 390
R701 150 (1W)
R704 1K (1W)
L501 1μH
L601 1μH
PA-3002
42.8V
32V
31.5V
0V
25.2V (21V)
24.8V
2.7V
23.5V
−25.2V (−21V)
+B
−B
G
33
34
35
36
37
38
39
40
41
42
43
44
45
47
48
AWX-110, No. 2
GWX-107, No. 52
AWX-110, No. 5
GWG-103, No. 20
GWG-103, No. 19
GWX-107, No. 50
GWG-103, No. 21
GWG-103, No. 24

10.5 HEADPHONES ASSEMBLY (GWX-107)

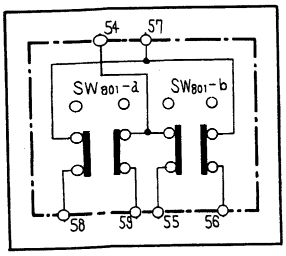

R1
150(½W)
R2
150(½W)
52
50
53
49
51

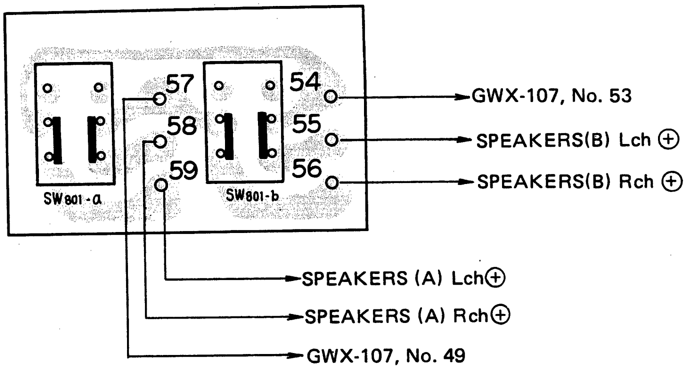

HEADPHONES
R1
150
(½W)
R2
150
(½W)
53
52
49
50
51
GWS-107, No.57
GWH-103, No. 35
AWX-110, No.4
GWS-107, No.54
GWH-103, No.40

Parts List

Symbol	Description	Part No.
	Phone jack (A)	AKN-009
R1	Carbon film 150 ½W	RD½PS 151J
R2	Carbon film 150 ½W	RD½PS 151J

10.6 SPEAKER SELECTOR ASSEMBLY (GWS-107)

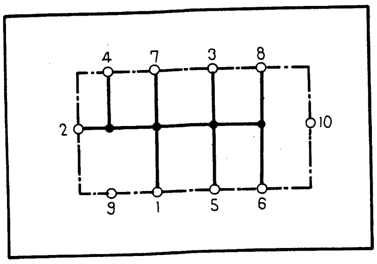

54
57
SW801-a
SW801-b
58
59
55
56

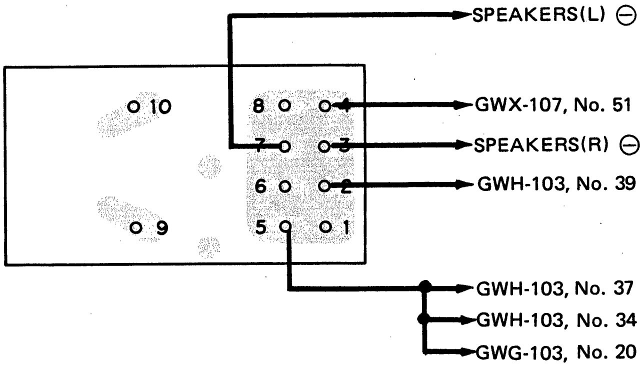

57
58
59
54
55
56
SW801-a
SW801-b
GWX-107, No. 53
SPEAKERS(B) Lch ⊕
SPEAKERS(B) Rch ⊕
SPEAKERS (A) Lch⊕
SPEAKERS (A) Rch⊕
GWX-107, No. 49

Part List

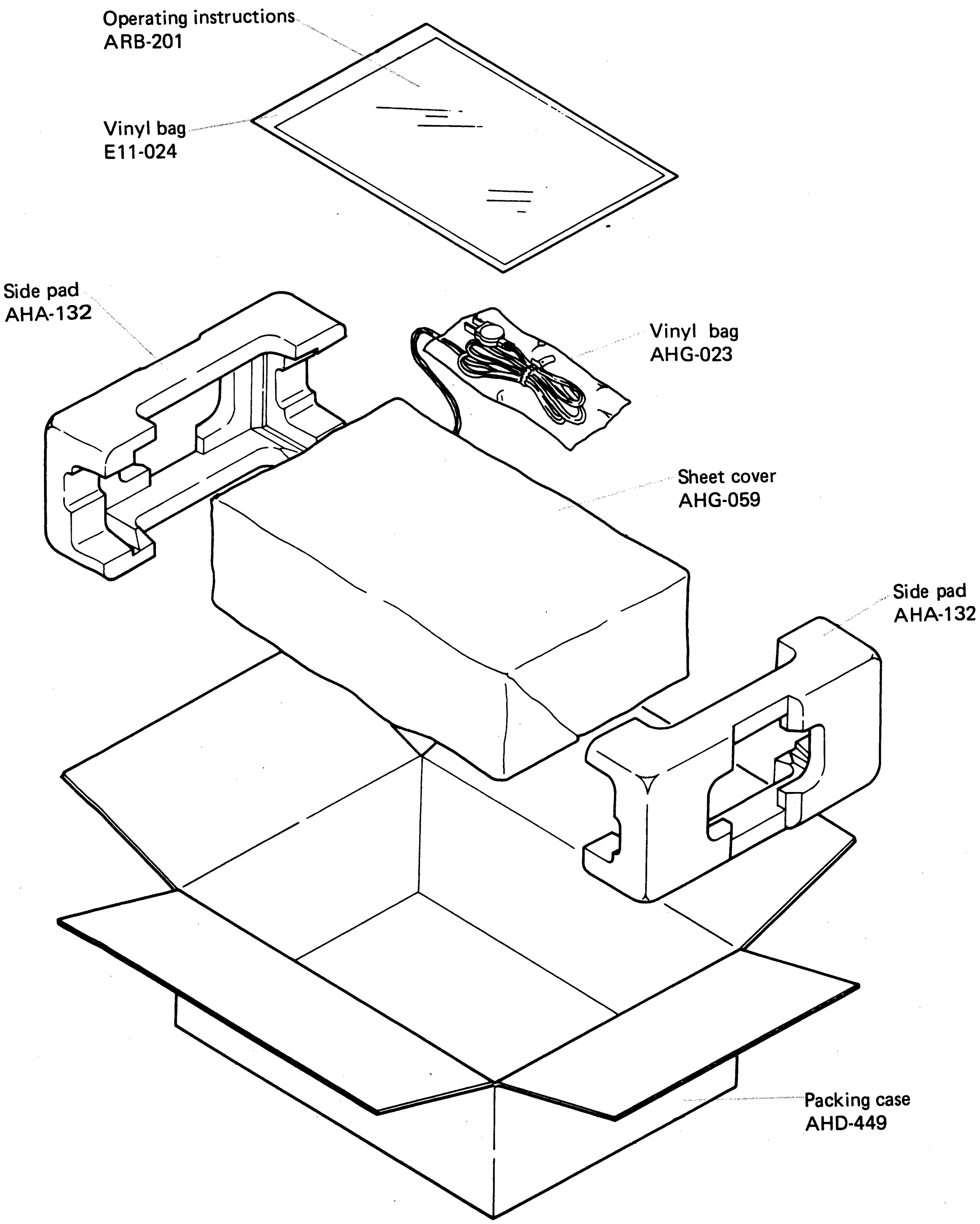
Symbol	Description	Part No.
SW801	Push switch (SPEAKERS)	ASG-117

10.7 EARTH ASSEMBLY (AWX-110)


4
7
3
8
2
10
9
1
5
6


SPEAKERS(L) ⊖
10
8
4
GWX-107, No. 51
7
3
SPEAKERS(R) ⊖
6
2
GWH-103, No. 39
9
5
1
GWH-103, No. 37
GWH-103, No. 34
GWG-103, No. 20

11. PACKING


Operating instructions
ARB-201
Vinyl bag
E11-024
Side pad
AHA-132
Vinyl bag
AHG-023
Sheet cover
AHG-059
Side pad
AHA-132
Packing case
AHD-449

STEREO AMPLIFIER

SA-5500II

KC, HG, S

Additional

Service Manual

NOTE:
This leaflet provides the description of the parts applies only to the KC, HG and S type.
For detailed please refer to the Service Manual of SA-5500II/KU.

PIONEER®

MODEL SA-5500II COMES IN FOUR VERSIONS DISTINGUISHED AS FOLLOWS:

Type	Voltage	Remarks
KU	120V	UL (U.S.A.) approved.
KC	120V	CSA (Canada) approved.
HG	220V and 240V (Switchable)	SEMKO (Sweden), NEMKO (Norway), DEMKO (Denmark) and EI (Finland) approved.
S	110V, 120V, 220V and 240V (Switchable)	General export model.

1. SPECIFICATIONS

The specifications for "KC" "HG" and "S" types are same as "KU" type except for following sections.

Power Requirements	120V 60Hz only KC type 220V and 240V (Switchable) HG type 110V, 120V, 220V and 240V (Switchable) S type
Power Consumption	100VA (CSA), 130W (Max.) KC type 130W (Max.) HG type 130W (Max.) S type

2. CONTRAST OF MISCELLANEOUS PARTS

ASSEMBLIES

Symbol	Description	Part No.				Remarks
		KU type	KC type	HG type	S type	
	Power amplifier assembly	GWH-103	GWH-104	GWH-105	GWH-106	
	Tone amplifier assembly	GWG-103	GWG-104	GWG-105	GWG-106	
	Equalizer amplifier assembly	GWF-103	GWF-104	GWF-105	GWF-106	
	Headphones assembly	GWX-107	GWX-108	GWX-109	GWX-110	
	Speakers selector assembly	GWS-107	GWS-108	GWS-109	GWS-110	
	DIN assembly	....	....	AWX-112	AWX-112	
	Earth assembly	AWX-110	AWX-110	AWX-111	AWX-111	

FUSES

Symbol	Description	Part No.				Remarks
		KU type	KC type	HG type	S type	
FU1	Fuse 3A 1.6A 1.5A	AEK-101	AEK-101	.... AEK-405	.... AEK-104	
FU2	Fuse 4A	AEK-100	AEK-100	AEK-400	AEK-100	
FU3	Fuse 4A	AEK-100	AEK-100	AEK-400	AEK-100	
FU4	Fuse 1A	AEK-106	AEK-106	AEK-402	AEK-106	

CAPACITORS

Symbol	Description	Part No.				Remarks
		KU type	KC type	HG type	S type	
C1	Ceramic 0.01	ACG-001	ACG-014	....	ACG-001	
C2	Ceramic 0.01	ACG-003	ACG-014	....	....	

SWITCHES

Symbol	Description	Part No.				Remarks
		KU type	KC type	HG type	S type	
S1	Lever switch (POWER)	ASK-108	ASK-108	ASK-125	ASK-126	
S2	Plug in selector (Line voltage selector)	....	....	AKX-037	AKR-031	

TRANSFORMER

Symbol	Description	Part No.				Remarks
		KU type	KC type	HG type	S type	
T1	Power transformer	ATT-356	ATT-357	ATT-358	ATT-359	

OTHERS

Symbol	Description	Part No.				Remarks
		KU type	KC type	HG type	S type	
	Strain relief (POWER CORD)	AEC-358	AEC-358	....	AEC-337	
	Capacitor cover	AEC-294	....	....	....	
	Capacitor cover (large)	AEC-279	AEC-279	....	....	
	Inlet-held plate (AC socket)	....	....	ANF-521	....	
	AC socket (OUTLET)	AKP-005	AKP-005	....	AKP-004	
	AC socket (INLET)	....	....	AKP-008	....	
	AC power cord	ADG-005	ADG-005	....	ADG-016	
	Packing case	AHD-449	AHD-450	AHD-451	AHD-449	

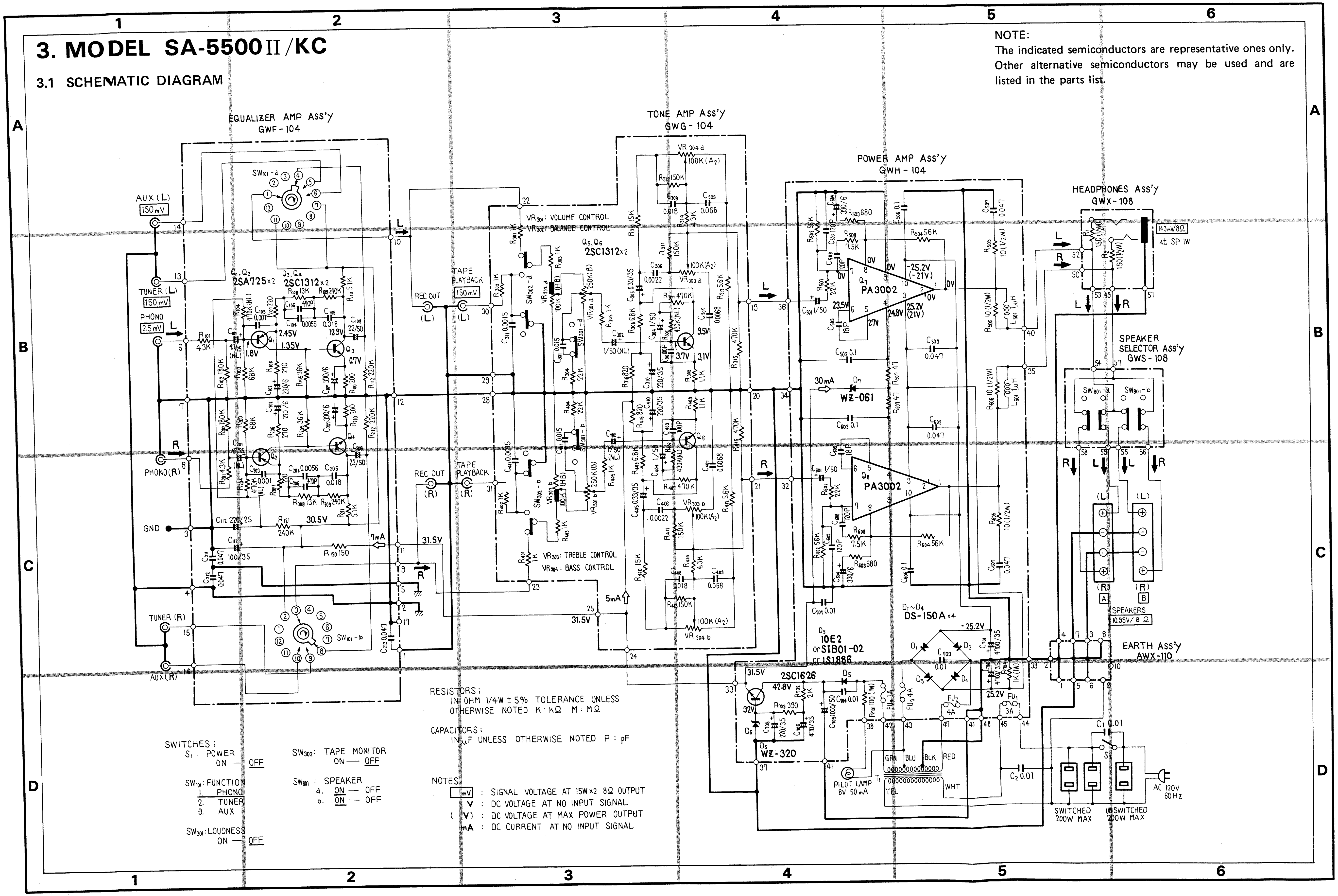
FURNISHED PARTS

Symbol	Description	Part No.				Remarks
		KU type	KC type	HG type	S type	
	Operating instructions	ARB-201	ARB-201	ARB-202	ARB-202	English
		....	....	ARD-101	....	German/French
	Vinyl bag	....	....	....	E11-033	
	Fuse 1.5A	....	....	....	AEK-104	
	Fuse 3A	....	....	....	AEK-101	

3. MODEL SA-5500II/KC

3.1 SCHEMATIC DIAGRAM

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.



1
2
3
4
5
6
A
B
C
D
EQUALIZER AMP Ass'y GWF-104
TONE AMP Ass'y GWG-104
POWER AMP Ass'y GWH-104
HEADPHONES Ass'y GWX-108
SPEAKER SELECTOR Ass'y GWS-108
EARTH Ass'y AWX-110
AUX (L) 150mV
TUNER (L) 150mV
PHONO 2.5mV
PHONO (R)
GND
TUNER (R)
AUX (R)
REC OUT (L)
TAPE PLAYBACK (L) 150mV
REC OUT (R)
TAPE PLAYBACK (R)
SW101-a
SW101-b
Q1, Q2 2SA725×2
Q3, Q4 2SC1312×2
Q5, Q6 2SC1312×2
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
VR303: TREBLE CONTROL
VR304: BASS CONTROL
SW302-a
SW302-b
SW301-a
SW301-b
Q7 PA3002
Q8 PA3002
D7 WZ-061
30mA
7mA
5mA
31.5V
30.5V
-25.2V (-21V)
25.2V (21V)
143mV/8Ω at SP 1W
SPEAKERS 10.95V/8Ω
(L)
(R)
A
B
SW801-a
SW801-b
D1~D4 DS-150A×4
D5 10E2 or SIB01-02 or 1S1886
2SC1626
D6 WZ-320
42.8V
32V
FU1 3A
FU2 4A
FU3 1A
FU4 1A
T1
GRN
BLU
BLK
RED
YEL
WHT
PILOT LAMP 8V 50mA
C1 0.01
C2 0.01
S1
SWITCHED 200W MAX
UNSWITCHED 200W MAX
AC 120V 60Hz

RESISTORS;
IN OHM 1/4W ± 5% TOLERANCE UNLESS OTHERWISE NOTED K : kΩ M : MΩ

CAPACITORS;
IN μF UNLESS OTHERWISE NOTED P : pF

SWITCHES;
S1 : POWER
ON — OFF

SW101: FUNCTION
1. PHONO
2. TUNER
3. AUX

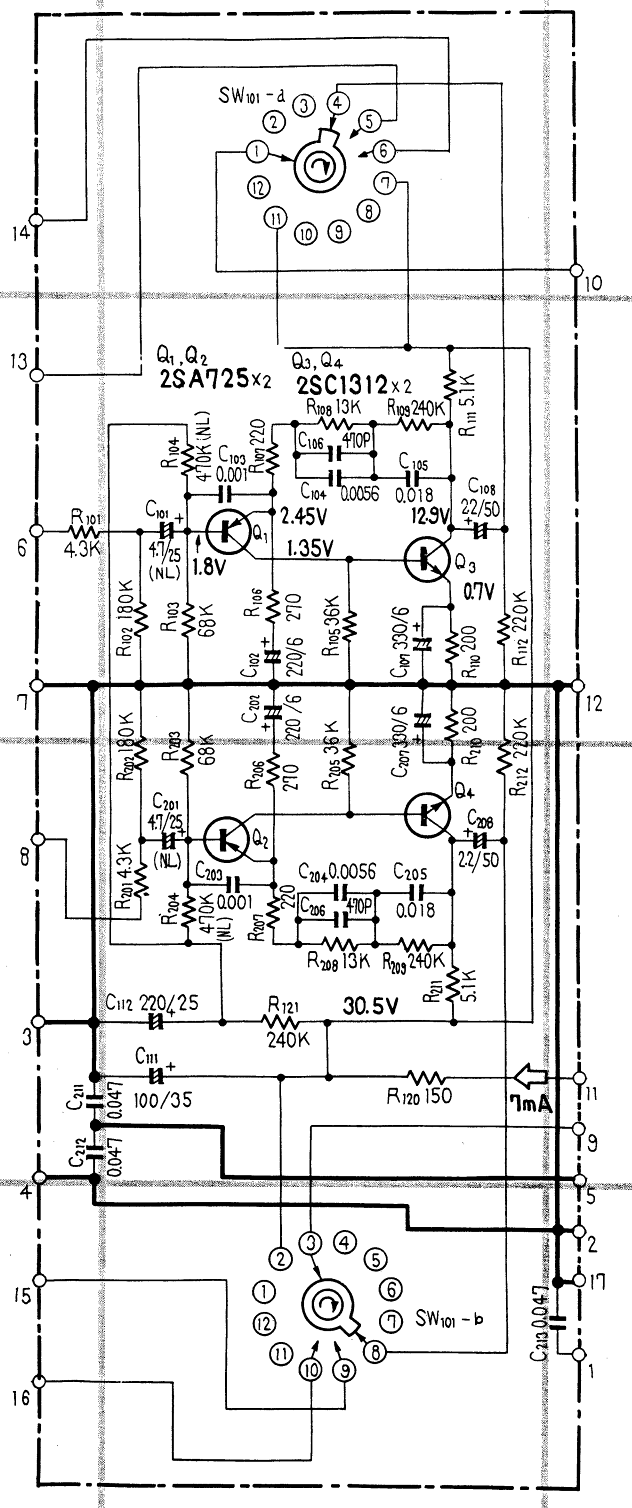
SW301: LOUDNESS
ON — OFF

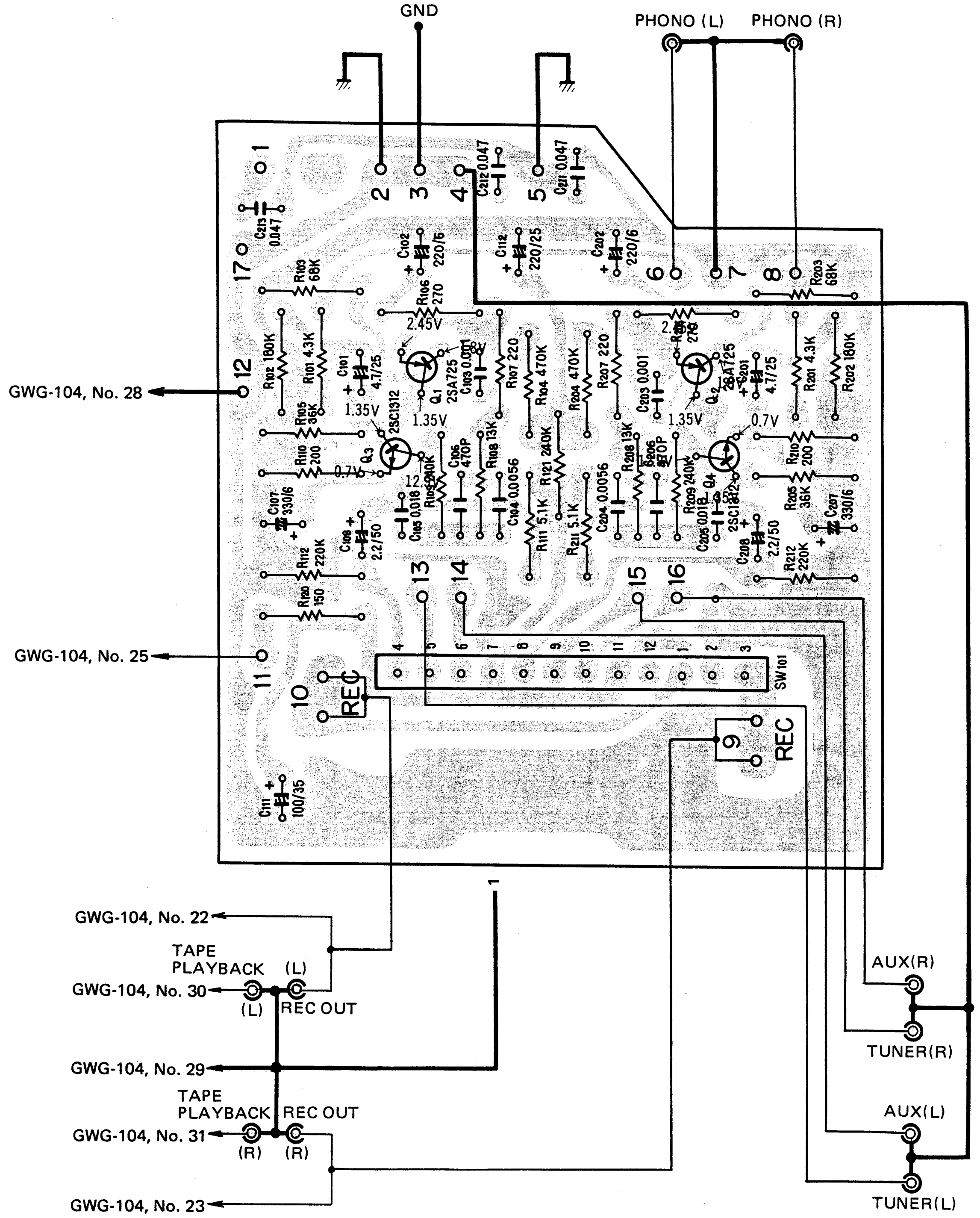
SW302: TAPE MONITOR
ON — OFF

SW801 : SPEAKER
a. ON — OFF
b. ON — OFF

NOTES
mV : SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
V : DC VOLTAGE AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT MAX POWER OUTPUT
mA : DC CURRENT AT NO INPUT SIGNAL

3.2 EQUALIZER AMPLIFIER ASSEMBLY (GWF-104)


SW101 - a
Q1, Q2 2SA725×2
Q3, Q4 2SC1312×2
R101 4.3K
R102 180K
R103 68K
R104 470K (NL)
R105 36K
R106 270
R107 220
R108 13K
R109 240K
R110 200
R111 5.1K
R112 220K
C101 4.7/25 (NL)
C102 220/6
C103 0.001
C104 0.0056
C105 0.018
C106 470P
C107 330/6
C108 22/50
R201 4.3K
R202 180K
R203 68K
R204 470K (NL)
R205 36K
R206 270
R207 220
R208 13K
R209 240K
R210 200
R211 5.1K
R212 220K
C201 4.7/25 (NL)
C202 220/6
C203 0.001
C204 0.0056
C205 0.018
C206 470P
C207 330/6
C208 22/50
C112 220/25
C111 100/35
R121 240K
R120 150
C211 0.047
C212 0.047
C213 0.047
1.8V
2.45V
1.35V
12.9V
0.7V
30.5V
7mA
SW101 - b
14
13
6
7
8
3
4
15
16
10
12
11
9
5
2
17
1


GND
PHONO (L)
PHONO (R)
GWG-104, No. 28
GWG-104, No. 25
GWG-104, No. 22
TAPE PLAYBACK (L)
GWG-104, No. 30
(L) REC OUT
GWG-104, No. 29
TAPE PLAYBACK
REC OUT
GWG-104, No. 31
(R) (R)
GWG-104, No. 23
AUX(R)
TUNER(R)
AUX(L)
TUNER(L)
SW101
REC
REC
2.45V
1.35V
0.7V
12.9V
2SA725
2SC1312
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Equalizaer Amplifier Assembly (GWF-104)

SWITCH AND OTHERS

Symbol	Description	Part No.
SW101	Rotary switch (FUNCTION)	ASD-064
	Switch-held metal	ANF-487
	Nut 9φ	B71-004

CAPACITORS

Symbol	Description			Part No.
C101	Electrolytic	4.7	25V	CEANL 4R7P 25
C102	Electrolytic	220	6V	CEA 221P 6
C103	Ceramic	1000p	50V	CKDYB 102K 50
C104	Mylar	5600p	50V	CQMA 562J 50
C105	Mylar	0.018	50V	CQMA 183J 50
C106	Ceramic	470p	50V	CKDYB 471K 50
C107	Electrolytic	330	6V	CEA 331P 6
C108	Electrolytic	2.2	50V	CEA 2R2P 50
C111	Electrolytic	100	35V	CEA 101P 35
C112	Electrolytic	220	25V	CEA 221P 25
C201	Electrolytic	4.7	25V	CEANL 4R7P 25
C202	Electrolytic	220	6V	CEA 221P 6
C203	Ceramic	1000p	50V	CKDYB 102K 50
C204	Mylar	5600p	50V	CQMA 562J 50
C205	Mylar	0.018	50V	CQMA 183J 50
C206	Ceramic	470p	50V	CKDYB 471K 50
C207	Electrolytic	330	6V	CEA 331P 6
C208	Electrolytic	2.2	50V	CEA 2R2P 50
C211	Ceramic	0.047	50V	CKDYF 473Z 50
C212	Ceramic	0.047	50V	CKDYF 473Z 50
C213	Ceramic	0.047	50V	CKDYF 473Z 50

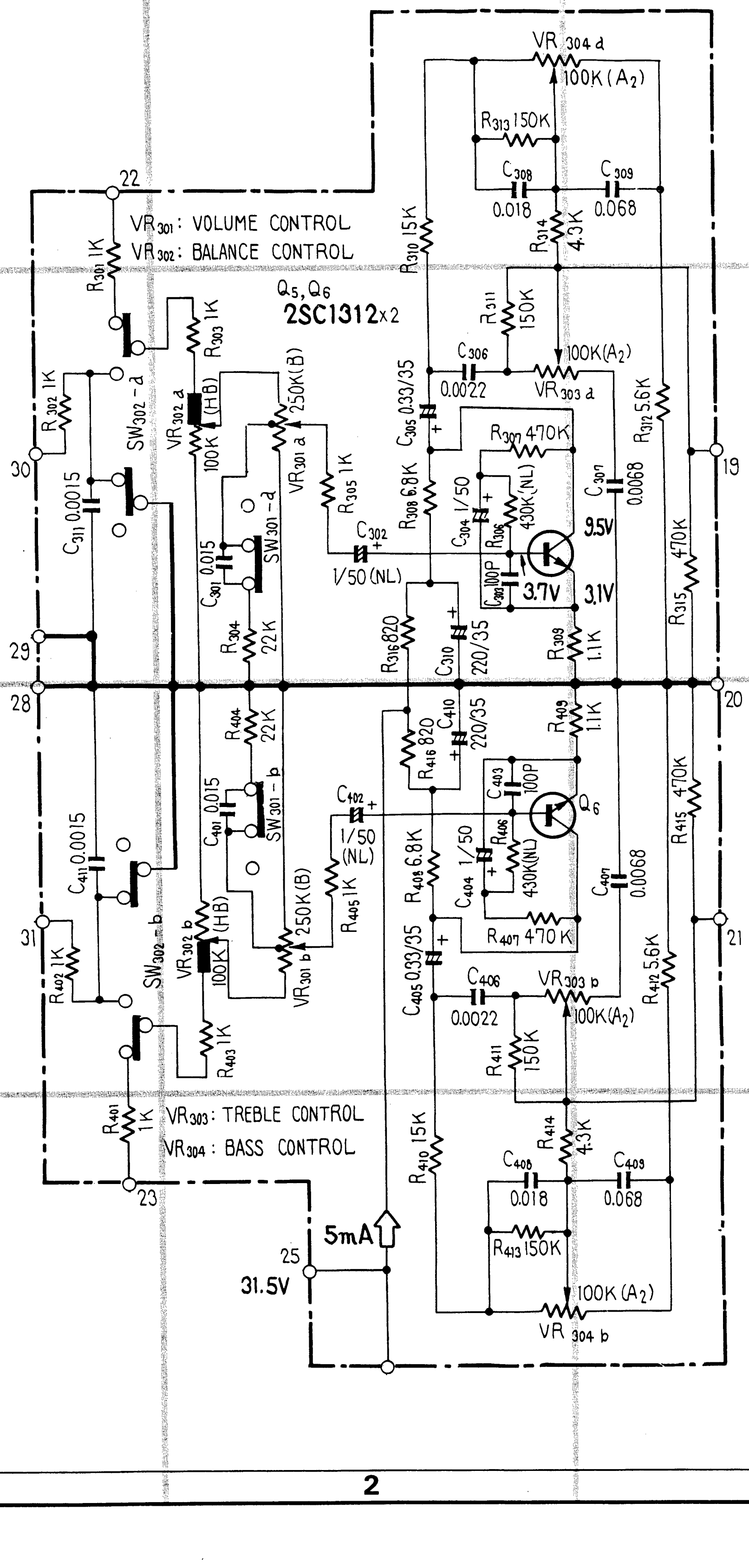
RESISTORS

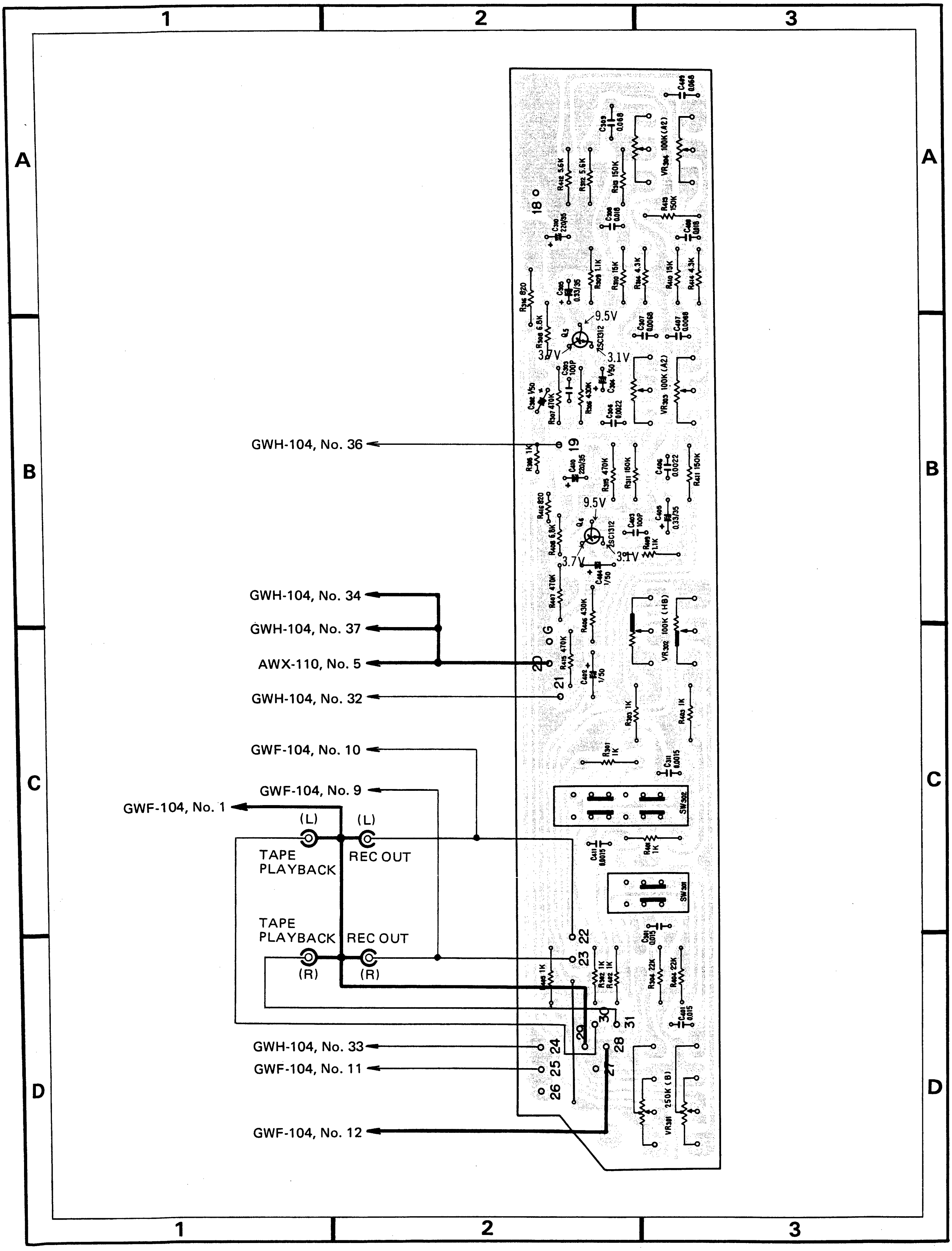
Symbol	Description		Part No.
R101	Carbon film	4.3k	RD¼PS 432J
R102	Carbon film	180k	RD¼PS 184J
R103	Carbon film	68k	RD¼PS 683J
R104	Carbon film	470k	RD¼PS 474J NL
R105	Carbon film	36k	RD¼PS 363J
R106	Carbon film	270	RD¼PS 271J
R107	Carbon film	220	RD¼PS 221J
R108	Carbon film	13k	RD¼PS 133J
R109	Carbon film	240k	RD¼PS 244J
R110	Carbon film	200	RD¼PS 201J
R111	Carbon film	5.1k	RD¼PS 512J
R112	Carbon film	220k	RD¼PS 224J
R120	Carbon film	150	RD¼PS 151J
R121	Carbon film	240k	RD¼PS 244J
R201	Carbon film	4.3k	RD¼PS 432J
R202	Carbon film	180k	RD¼PS 184J
R203	Carbon film	68k	RD¼VS 683J
R204	Carbon film	470k	RD¼PS 474J NL
R205	Carbon film	36k	RD¼PS 363J
R206	Carbon film	270	RD¼PS 271J
R207	Carbon film	220	RD¼PS 221J
R208	Carbon film	13k	RD¼PS 133J
R209	Carbon film	240k	RD¼PS 244J
R210	Carbon film	200	RD¼PS 201J
R211	Carbon film	5.1k	RD¼PS 512J
R212	Carbon film	220k	RD¼PS 224J

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SA725-F or G
Q2	Transistor	2SA725-F or G
Q3	Transistor	2SC1312-F or G
Q4	Transistor	2SC1312-F or G

3.3 TONE AMPLIFIER ASSEMBLY (GWG-104)


1
2
3
A
B
C
D
VR₃₀₁ : VOLUME CONTROL
VR₃₀₂ : BALANCE CONTROL
Q5, Q6
2SC1312x2
VR₃₀₃ : TREBLE CONTROL
VR₃₀₄ : BASS CONTROL
22
23
25
28
29
30
31
19
20
21
31.5V
5mA
9.5V
3.7V
3.1V
Q6
VR 304 a 100K (A2)
R313 150K
C308 0.018
C309 0.068
R314 4.3K
R310 15K
R311 150K
C306 0.0022
VR303 a 100K(A2)
C305 0.33/35
R312 5.6K
R307 470K
C307 0.0068
R308 6.8K
C304 1/50
R306 430K (NL)
C303 100P
R305 1K
C302 1/50 (NL)
R315 470K
R316 820
C310 220/35
R309 1.1K
R301 1K
R302 1K
R303 1K
SW302 - a
VR302 a 100K (HB)
VR301 a 250K(B)
C311 0.0015
C301 0.015
SW301 - a
R304 22K
R404 22K
C401 0.015
SW301 - b
C411 0.0015
SW302 - b
VR302 b 100K (HB)
VR301 b 250K (B)
R402 1K
R403 1K
R401 1K
R405 1K
C402 1/50 (NL)
R416 820
C410 220/35
R409 1.1K
C403 100P
R406 430K(NL)
C404 1/50
R408 6.8K
R407 470 K
C407 0.0068
R415 470K
C405 0.33/35
C406 0.0022
VR303 b 100K(A2)
R412 5.6K
R411 150K
R410 15K
R414 4.3K
C408 0.018
C409 0.068
R413 150K
VR 304 b 100K (A2)


1
2
3
A
B
C
D
GWH-104, No. 36
GWH-104, No. 34
GWH-104, No. 37
AWX-110, No. 5
GWH-104, No. 32
GWF-104, No. 10
GWF-104, No. 9
GWF-104, No. 1
(L)
(L)
TAPE PLAYBACK
REC OUT
TAPE PLAYBACK
REC OUT
(R)
(R)
GWH-104, No. 33
GWF-104, No. 11
GWF-104, No. 12
18
19
20
21
22
23
24
25
26
27
28
29
30
31
G
9.5V
3.7V
3.1V
9.5V
3.7V
3.1V
2SC1312
2SC1312
VR304 100K (A2)
VR303 100K (A2)
VR302 100K (HB)
VR301 250K (B)
SW302
SW301

Tone Amplifier Assembly (GWG-104)

SWITCHES AND OTHERS

Symbol	Description	Part No.
SW301	Lever switch (LOUDNESS)	ASK-120
SW302	Lever switch (TAPE MONITOR)	ASK-092
	Variable resistor-held metal	ANF-488
	Boss	ABN-021
	Nut 9φ	B71-004
	Shield board	ANH-331

CAPACITORS

Symbol	Description	Part No.
C301	Mylar 0.015 50V	CQMA 153J 50
C302	Electrolytic 1 50V	CEANL 010P 50
C303	Ceramic 100p 50V	CCDSL 101K 50
C304	Electrolytic 1 50V	CEA 010P 50
C305	Electrolytic 0.33 35V	CSZA R33M 35
C306	Mylar 2200p 50V	CQMA 222J 50
C307	Mylar 6800p 50V	CQMA 682J 50
C308	Mylar 0.018 50V	CQMA 183J 50
C309	Mylar 0.068 50V	CQMA 683J 50
C310	Electrolytic 220 35V	CEA 221P 35
C311	Ceramic 1500p 50V	CKDYB 152J 50
C401	Mylar 0.015 50V	CQMA 153J 50
C402	Electrolytic 1 50V	CEANL 010P 50
C403	Ceramic 100p 50V	CCDSL 101K 50
C404	Electrolytic 1 50V	CEA 010P 50
C405	Electrolytic 0.33 35V	CSZA R33M 35
C406	Mylar 2200p 50V	CQMA 222J 50
C407	Mylar 6800p 50V	CQMA 682J 50
C408	Mylar 0.018 50V	CQMA 183J 50
C409	Mylar 0.068 50V	CQMA 683J 50
C410	Electrolytic 220 35V	CEA 221P 35
C411	Ceramic 1500p 50V	CKDYB 152K 50

RESISTORS

Symbol	Description	Part No.
VR301	Variable resistor (VOLUME) 250k	ACV-181
VR302	Variable resistor (BALANCE) 100k	ACV-126
VR303	Variable resistor (TREBLE) 100k	ACV-182
VR304	Variable resistor (BASS) 100k	ACV-182
R301	Carbon film 1k	RD¼PS 102J
R302	Carbon film 1k	RD¼PS 102J
R303	Carbon film 1k	RD¼PS 102J
R304	Carbon film 22k	RD¼PS 223J
R305	Carbon film 1k	RD¼VS 102J
R306	Carbon film 430k	RD¼PS 434J NL
R307	Carbon film 470k	RD¼PS 474J
R308	Carbon film 6.8k	RD¼PS 682J
R309	Carbon film 1.1k	RD¼PS 112J
R310	Carbon film 15k	RD¼PS 153J
R311	Carbon film 150k	RD¼PS 154J
R312	Carbon film 5.6k	RD¼PS 562J
R313	Carbon film 150k	RD¼PS 154J
R314	Carbon film 4.3k	RD¼PS 432J
R315	Carbon film 470k	RD¼PS 474J
R316	Carbon film 820	RD¼PS 821J
R401	Carbon film 1k	RD¼PS 102J
R402	Carbon film 1k	RD¼PS 102J
R403	Carbon film 1k	RD¼PS 102J
R404	Carbon film 22k	RD¼PS 223J
R405	Carbon film 1k	RD¼PS 102J
R406	Carbon film 430k	RD¼PS 434J NL
R407	Carbon film 470k	RD¼PS 474J
R408	Carbon film 6.8k	RD¼VS 682J
R409	Carbon film 1.1k	RD¼PS 112J
R410	Carbon film 15k	RD¼PS 153J
R411	Carbon film 150k	RD¼PS 154J
R412	Carbon film 5.6k	RD¼PS 562J
R413	Carbon film 150k	RD¼PS 154J
R414	Carbon film 4.3k	RD¼PS 432J
R415	Carbon film 470k	RD¼PS 474J
R416	Carbon film 820	RD¼VS 821J

SEMICONDUCTORS

Symbol	Description	Part No.
Q5	Transistor	2SC1312-F or G
Q6	Transistor	2SC1312-F or G

3.4 POWER AMPLIFIER ASSEMBLY (GWH-104)

COILS AND OTHERS

Symbol	Description	Part No.
L501	AF choke coil 1μH	ATH-011
L601	AF choke coil 1μH	ATH-011
	Heat sink	ANH-332
	Spacer	AEC-339
	Fuse clip (large)	AKR-013
	Fuse clip	AKR-030
	Screw 3 x 12 (MC)	ABA-143

CAPACITORS

Symbol	Description	Part No.
C501	Electrolytic 1 50V	CEA 010P 50
C502	Mylar 0.1 50V	CQMA 104J 50
C503	Ceramic 120p 50V	CCDSL 121K 50
C504	Electrolytic 330 6V	CEA 331P 6
C505	Ceramic 18p 50V	CCDSL 180J 50
C506	Mylar 0.1 50V	CQMA 104J 50
C507	Mylar 0.047 50V	CQMA 473J 50
C508	Ceramic 120p 50V	CCDSL 121K 50
C509	Ceramic 0.047 150V	ACG-009
C601	Electrolytic 1 50V	CEA 010P 50
C602	Mylar 0.1 50V	CQMA 104J 50
C603	Ceramic 120p 50V	CCDSL 121K 50
C604	Electrolytic 330 6V	CEA 331P 6
C605	Ceramic 18p 50V	CCDSL 180J 50
C606	Mylar 0.1 50V	CQMA 104J 50
C607	Mylar 0.047 50V	CQMA 473J 50
C608	Ceramic 120p 50V	CCDSL 121K 50
C609	Ceramic 0.047 150V	ACG-009
C701	Electrolytic 4700 35V	ACH-043
C702	Electrolytic 4700 35V	ACH-043
C703	Ceramic 0.01 150V	ACG-004
C704	Ceramic 0.01 150V	ACG-004
C705	Electrolytic 1000 50V	CEA 102P 50
C706	Electrolytic 470 35V	CEA 471P 35
C707	Ceramic 0.01 50V	CKDYB 103K 50
C708	Electrolytic 220 35V	CEA 221P 35

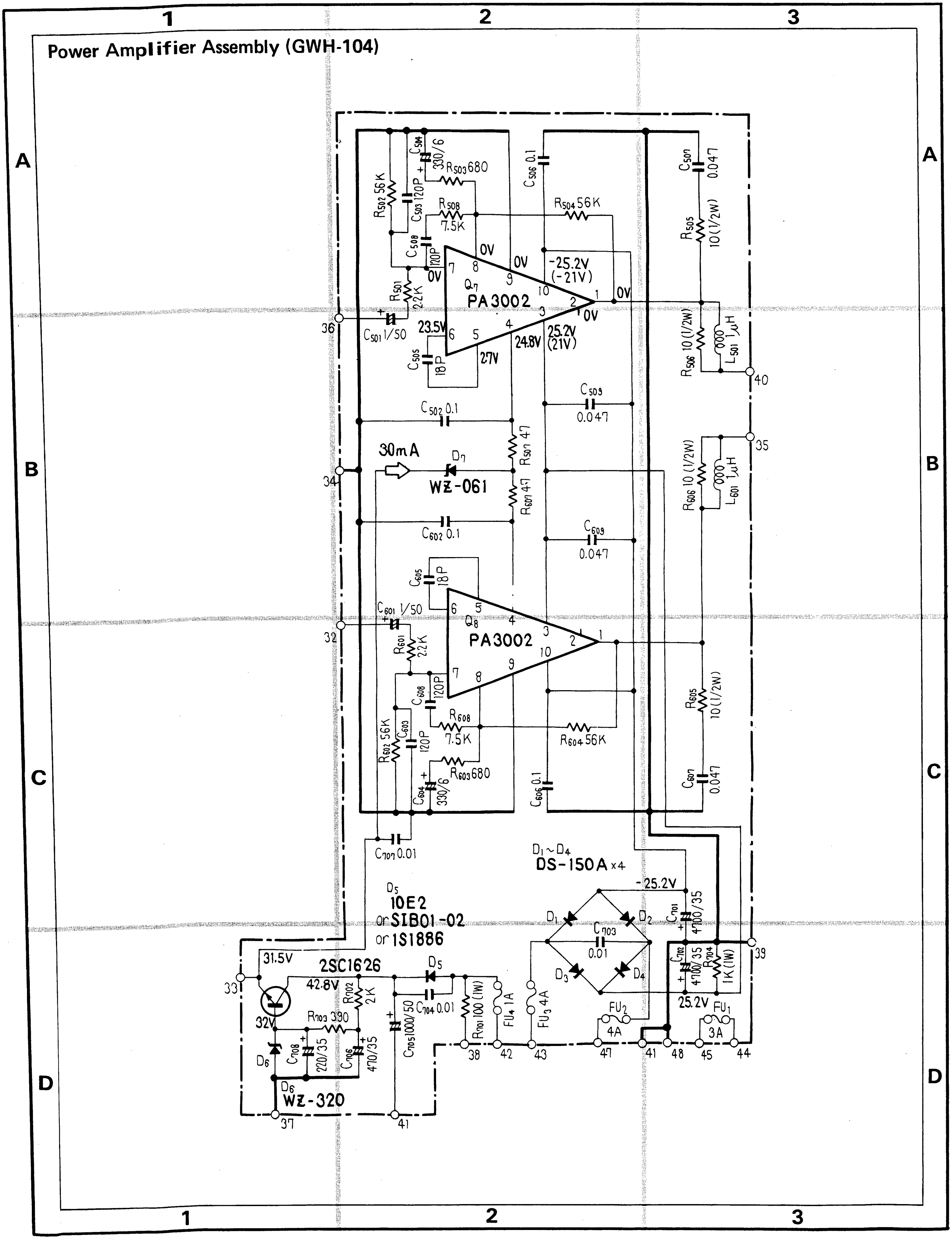
RESISTORS

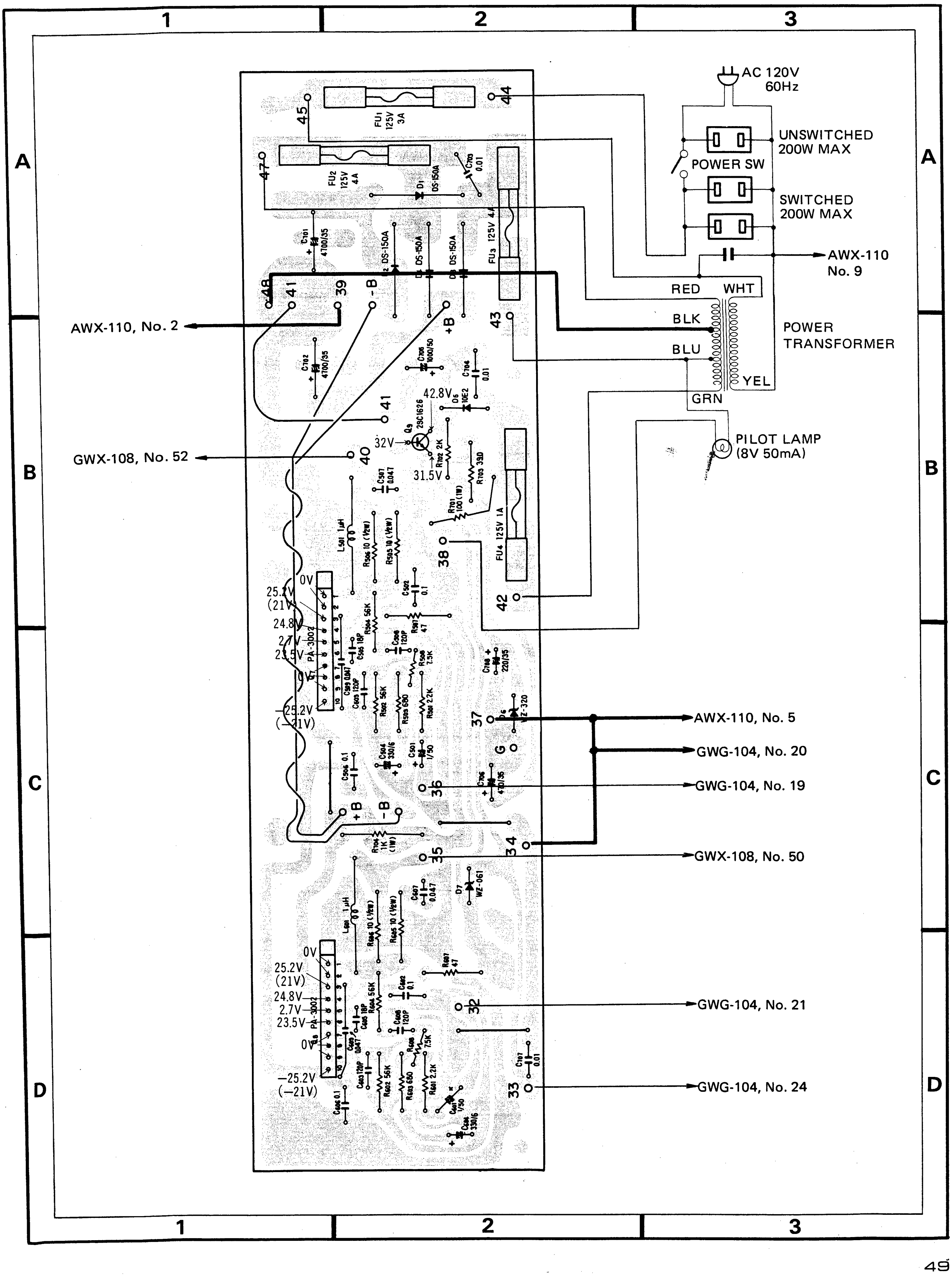
Symbol	Description	Part No.
R501	Carbon film 2.2k	RD¼PS 222J
R502	Carbon film 56k	RD¼PS 563J
R503	Carbon film 680	RD¼PS 681J
R504	Carbon film 56k	RD¼PS 563J
R505	Carbon film 10 ½W	RD½PS 100J
R506	Carbon film 10 ½W	RD½PS 100J
R507	Carbon film 47	RD¼PS 470J
R508	Carbon film 7.5k	RD¼PM 752J
R601	Carbon film 2.2k	RD¼PS 222J
R602	Carbon film 56k	RD¼PS 563J
R603	Carbon film 680	RD¼PS 681J
R604	Carbon film 56k	RD¼PS 563J
R605	Carbon film 10 ½W	RD½PS 100J
R606	Carbon film 10 ½W	RD½PS 100J
R607	Carbon film 47	RD¼PS 470J
R608	Carbon film 7.5k	RD¼PM 752J
R701	Metal oxide 100 1W	RS1P 101J
R702	Carbon film 2k	RD¼PS 202J
R703	Carbon film 390	RD¼PS 391J
R704	Metal oxide 1k 1W	RS1P 102J

SEMICONDUCTORS

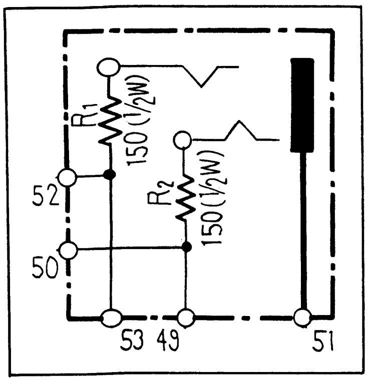
Symbol	Description	Part No.
Q7	IC	PA3002-A
Q8	IC	PA3002-A
Q9	Transistor	2SC1626-O or Y
D1	Diode	DS-150A
D2	Diode	DS-150A
D3	Diode	DS-150A
D4	Diode	DS-150A
D5	Diode	10E2 (1S1886 or SIB01-02)
D6	Zener diode	WZ-320
D7	Zener diode	WZ-061

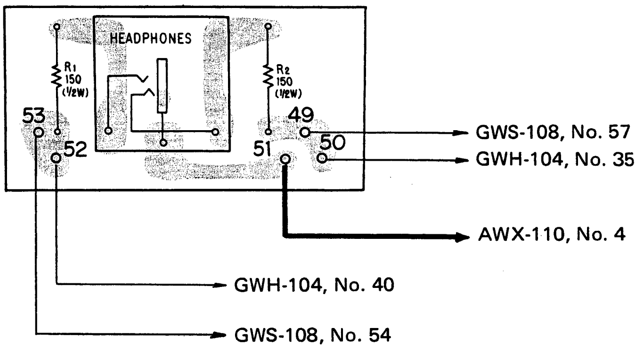
Power Amplifier Assembly (GWH-104)


1
2
3
A
B
C
D
C504 330/6
R503 680
R502 56K
C503 120P
R508 7.5K
C506 0.1
R504 56K
C507 0.047
R505 10(1/2W)
C508 120P
0V
-25.2V
(-21V)
R501 2.2K
Q7
PA3002
C501 1/50
23.5V
27V
24.8V
25.2V
(21V)
C505 18P
R506 10(1/2W)
L501 1μH
C502 0.1
C509 0.047
R507 4.7
30mA
D7
WZ-061
R607 4.7
C602 0.1
R606 10(1/2W)
L601 1μH
C609 0.047
C605 18P
C601 1/50
Q8
PA3002
R601 2.2K
C608 120P
R608 7.5K
R604 56K
R605 10(1/2W)
R602 56K
C603 120P
R603 680
C604 330/6
C606 0.1
C607 0.047
C707 0.01
D1~D4
DS-150A x4
D5
10E2
or SIB01-02
or 1S1886
-25.2V
C701 4700/35
D1
D2
C703 0.01
D3
D4
C702 4700/35
R704 1K(1W)
25.2V
31.5V
2SC1626
42.8V
R702 2K
D5
R703 390
32V
C708 220/35
C706 470/35
C705 1000/50
C704 0.01
R701 100(1W)
FU4 1A
FU3 4A
FU2 4A
FU1 3A
D6
WZ-320
36
34
32
33
37
41
38
42
43
47
41
48
45
44
39
40
35


1
2
3
A
B
C
D
AC 120V
60Hz
UNSWITCHED
200W MAX
POWER SW
SWITCHED
200W MAX
AWX-110
No. 9
RED
WHT
BLK
BLU
YEL
GRN
POWER
TRANSFORMER
PILOT LAMP
(8V 50mA)
FU1 125V 3A
FU2 125V 4A
FU3 125V 4A
FU4 125V 1A
D1 DS-150A
C703 0.01
C701 4700/35
C702 4700/35
DS-150A
C705 100/50
C704 0.01
42.8V
D5 10E2
Q9 2SC1626
32V
31.5V
R702 2K
R703 330
R701 100 (1W)
C507 0.047
L501 1μH
R506 10 (1/2W)
R505 10 (1/2W)
C502 0.1
R504 56K
R507 47
PA-3002
AWX-110, No. 2
GWX-108, No. 52
0V
25.2V
(21V)
24.8V
2.7V
23.5V
0V
−25.2V
(−21V)
C708 220/35
D6 WZ-320
R502 56K
R503 680
R501 2.2K
R508 7.5K
C504 330/6
C501 1/50
C506 0.1
C706 470/35
AWX-110, No. 5
GWG-104, No. 20
GWG-104, No. 19
GWX-108, No. 50
R704 1K (1W)
D7 WZ-061
C607 0.047
L601 1μH
R606 10 (1/2W)
R605 10 (1/2W)
R607 47
C602 0.1
R604 56K
C605 18P
C603 120P
R602 56K
R603 650
R601 2.2K
R608 7.5K
C601 1/50
C604 330/6
C606 0.1
C707 0.01
GWG-104, No. 21
GWG-104, No. 24
25.2V
(21V)
24.8V
2.7V
23.5V
0V
−25.2V
(−21V)
45
44
47
48
41
39
−B
+B
43
41
40
38
42
37
G
36
+B
−B
34
35
32
33

3.5 HEADPHONES ASSEMBLY (GWX-108)

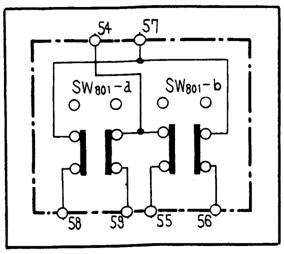

R1
150 (1/2W)
R2
150 (1/2W)
52
50
53
49
51

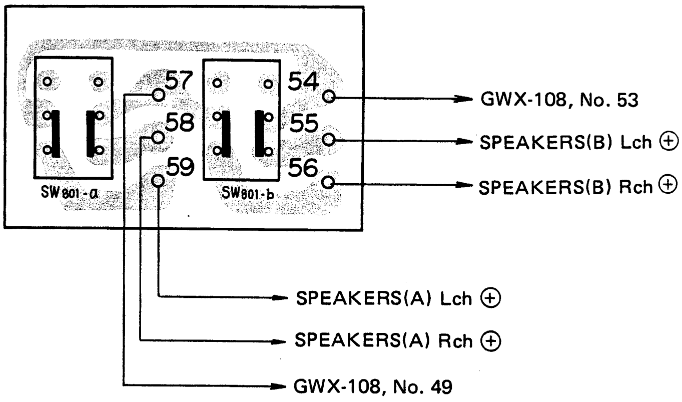

HEADPHONES
R1
150
(1/2W)
R2
150
(1/2W)
53
52
49
50
51
GWS-108, No. 57
GWH-104, No. 35
AWX-110, No. 4
GWH-104, No. 40
GWS-108, No. 54

Parts List

Symbol	Description	Part No.
	Phone jack (A)	AKN-009
R1	Carbon film 150 ½W	RD½PS 151J
R2	Carbon film 150 ½W	RD½PS 151J

3.6 SPEAKER SELECTOR ASSEMBLY (GWS-108)


54
57
SW801-a
SW801-b
58
59
55
56


57
58
59
54
55
56
SW801-a
SW801-b
GWX-108, No. 53
SPEAKERS(B) Lch ⊕
SPEAKERS(B) Rch ⊕
SPEAKERS(A) Lch ⊕
SPEAKERS(A) Rch ⊕
GWX-108, No. 49

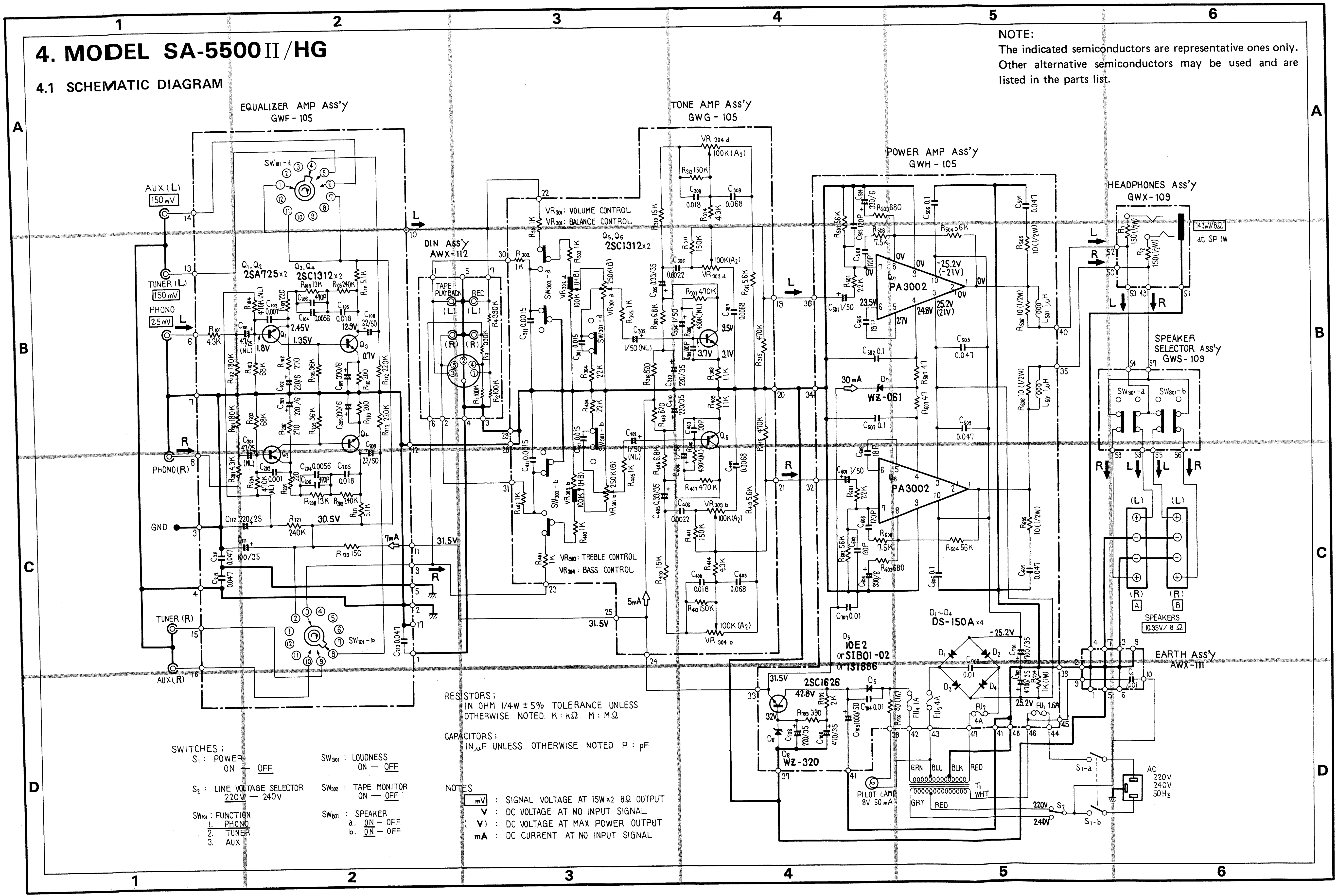
Part List

Symbol	Description	Part No.
SW801	Push switch (SPEAKERS)	ASG-117

4. MODEL SA-5500II/HG

4.1 SCHEMATIC DIAGRAM

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.


1
2
3
4
5
6
A
B
C
D
EQUALIZER AMP ASS'Y
GWF-105
TONE AMP ASS'Y
GWG-105
POWER AMP ASS'Y
GWH-105
HEADPHONES ASS'Y
GWX-109
SPEAKER SELECTOR ASS'Y
GWS-109
DIN ASS'Y
AWX-112
EARTH ASS'Y
AWX-111
AUX (L)
150mV
TUNER (L)
150mV
PHONO
2.5mV
PHONO (R)
GND
TUNER (R)
AUX (R)
TAPE PLAYBACK
REC
Q1, Q2 2SA725×2
Q3, Q4 2SC1312×2
Q5, Q6 2SC1312×2
Q7 PA3002
Q8 PA3002
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
VR303: TREBLE CONTROL
VR304: BASS CONTROL
SW101-a
SW101-b
SW301-a
SW301-b
SW302-a
SW302-b
SW801-a
SW801-b
D7 WZ-061
30mA
7mA
5mA
31.5V
30.5V
-25.2V
25.2V
2SC1626
42.8V
32V
D5 10E2 or SIB01-02 or 1S1886
D6 WZ-320
D1~D4 DS-150A×4
FU1 1.6A
FU2 4A
FU3 4A
FU4 1A
PILOT LAMP 8V 50mA
GRN
BLU
BLK
RED
GRY
WHT
T1
S1-a
S1-b
S2
220V
240V
AC 220V 240V 50Hz
143mV/8Ω at SP 1W
SPEAKERS 10.35V/8Ω
(L)
(R)
A
B

SWITCHES;
S1: POWER ON — OFF
S2: LINE VOLTAGE SELECTOR 220V — 240V
SW101: FUNCTION
1. PHONO
2. TUNER
3. AUX

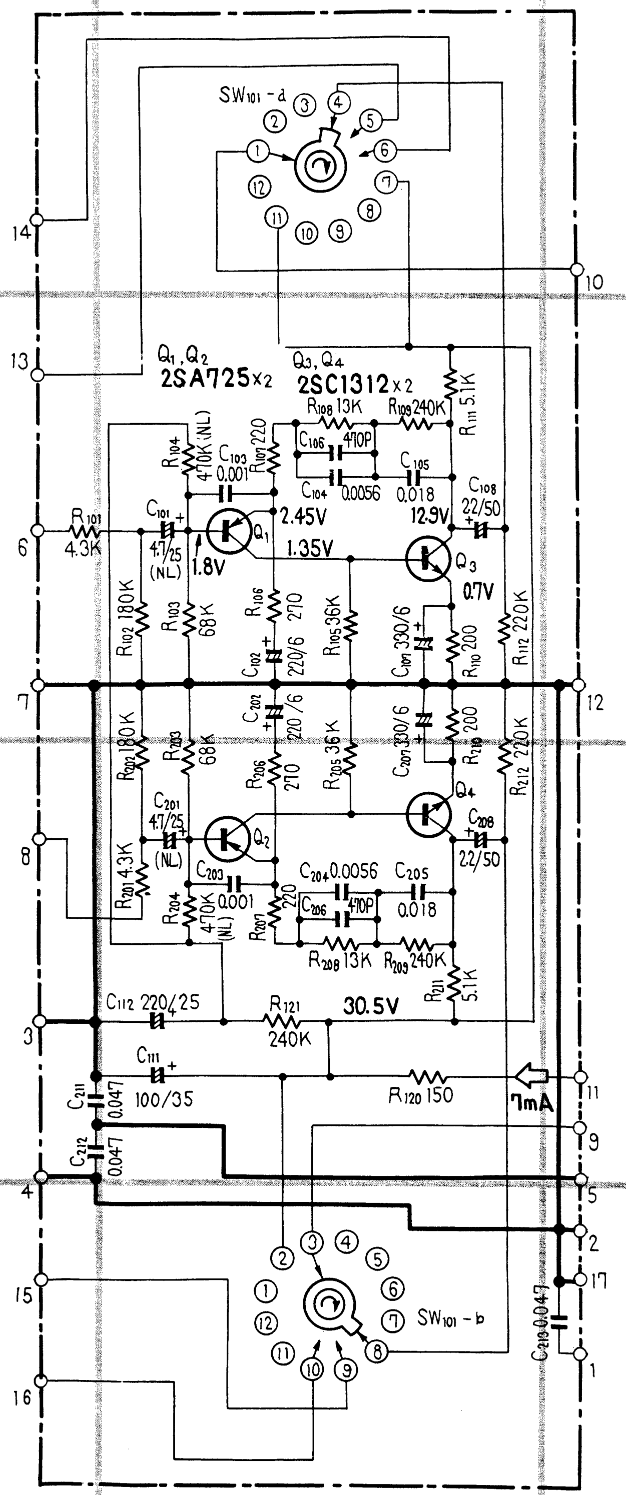
SW301: LOUDNESS ON — OFF
SW302: TAPE MONITOR ON — OFF
SW801: SPEAKER
a. ON — OFF
b. ON — OFF

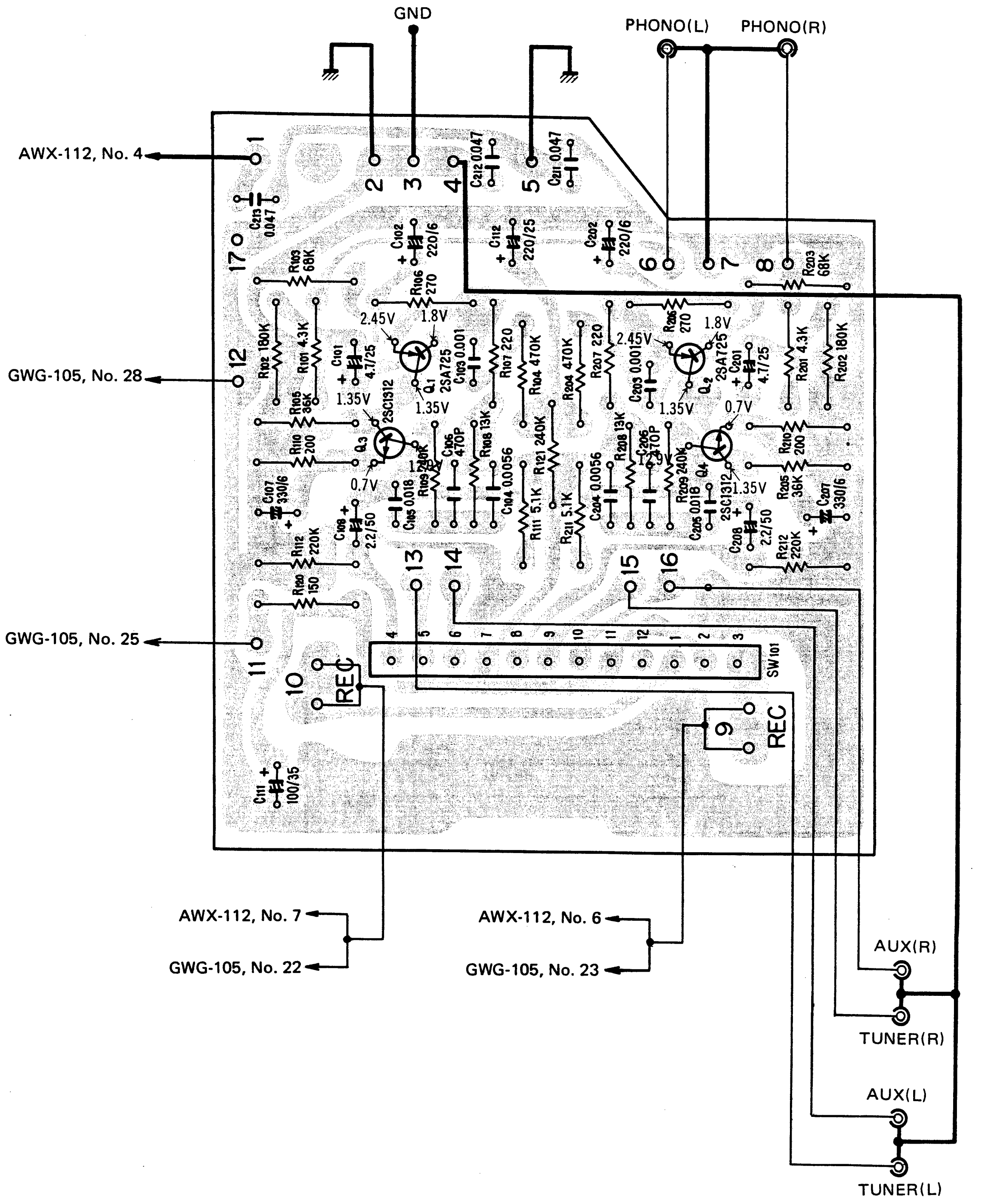
RESISTORS;
IN OHM 1/4W ±5% TOLERANCE UNLESS OTHERWISE NOTED. K: kΩ M: MΩ

CAPACITORS;
IN μF UNLESS OTHERWISE NOTED P: pF

NOTES
mV : SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
V : DC VOLTAGE AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT MAX POWER OUTPUT
mA : DC CURRENT AT NO INPUT SIGNAL

4.2 EQUALIZER AMPLIFIER ASSEMBLY (GWF-105)


SW101 - a
Q1, Q2 2SA725x2
Q3, Q4 2SC1312x2
R101 4.3K
C101 4.7/25 (NL)
R104 470K (NL)
C103 0.001
R107 220
R108 13K
R109 240K
R111 5.1K
C106 470P
C104 0.0056
C105 0.018
C108 22/50
2.45V
1.8V
1.35V
12.9V
0.7V
R102 180K
R103 68K
R106 270
R105 36K
C102 220/6
C107 330/6
R110 200
R112 220K
C202 220/6
R205 36K
C207 330/6
R210 200
R202 180K
R203 68K
R206 270
R212 220K
C201 4.7/25 (NL)
C208 22/50
R201 4.3K
C203 0.001
C204 0.0056
C205 0.018
C206 470P
R204 470K (NL)
R207 220
R208 13K
R209 240K
R211 5.1K
C112 220/25
R121 240K
30.5V
C111 100/35
R120 150
7mA
C211 0.047
C212 0.047
C213 0.047
SW101 - b
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17


GND
PHONO(L)
PHONO(R)
AWX-112, No. 4
GWG-105, No. 28
GWG-105, No. 25
AWX-112, No. 7
GWG-105, No. 22
AWX-112, No. 6
GWG-105, No. 23
AUX(R)
TUNER(R)
AUX(L)
TUNER(L)
REC
SW101
C212 0.047
C211 0.047
C213 0.047
C102 220/6
C112 220/25
C202 220/6
R103 68K
R203 68K
R106 270
R206 270
2.45V
1.8V
1.35V
0.7V
2SA725
2SC1312
C101 4.7/25
C201 4.7/25
R102 180K
R101 4.3K
R201 4.3K
R202 180K
R107 220
R104 470K
R204 470K
R207 220
C103 0.001
C203 0.001
R105 36K
R205 36K
R110 200
R210 200
C107 330/6
C207 330/6
C105 0.018
C106 470P
C104 0.0056
R108 13K
R121 240K
R111 5.1K
R211 5.1K
C204 0.0056
R208 13K
C206 470P
R209 240K
C205 0.018
C108 22/50
C208 22/50
R112 220K
R212 220K
R120 150
C111 100/35
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Equalizer Amplifier Assembly (GWF-105)

SWITCH AND OTHERS

Symbol	Description	Part No.
SW101	Rotary switch (FUNCTION) Switch-held metal Nut 9ϕ	ASD-064 ANF-487 B71-004

CAPACITORS

Symbol	Description			Part No.
C101	Electrolytic	4.7	25V	CEANL 4R7P 25
C102	Electrolytic	220	6V	CEA 221P 6
C103	Ceramic	1000p	50V	CKDYB 102K 50
C104	Mylar	5600p	50V	CQMA 562J 50
C105	Mylar	0.018	50V	CQMA 183J 50
C106	Ceramic	470p	50V	CKDYB 471K 50
C107	Electrolytic	330	6V	CEA 331P 6
C108	Electrolytic	2.2	50V	CEA 2R2P 50
C111	Electrolytic	100	35V	CEA 101P 35
C112	Electrolytic	220	25V	CEA 221P 25
C201	Electrolytic	4.7	25V	CEANL 4R7P 25
C202	Electrolytic	220	6V	CEA 221P 6
C203	Ceramic	1000p	50V	CKDYB 102K 50
C204	Mylar	5600p	50V	CQMA 562J 50
C205	Mylar	0.018	50V	CQMA 183J 50
C206	Ceramic	470p	50V	CKDYB 471K 50
C207	Electrolytic	330	6V	CEA 331P 6
C208	Electrolytic	2.2	50V	CEA 2R2P 50
C211	Ceramic	0.047	50V	CKDYF 473Z 50
C212	Ceramic	0.047	50V	CKDYF 473Z 50
C213	Ceramic	0.047	50V	CKDYF 473Z 50

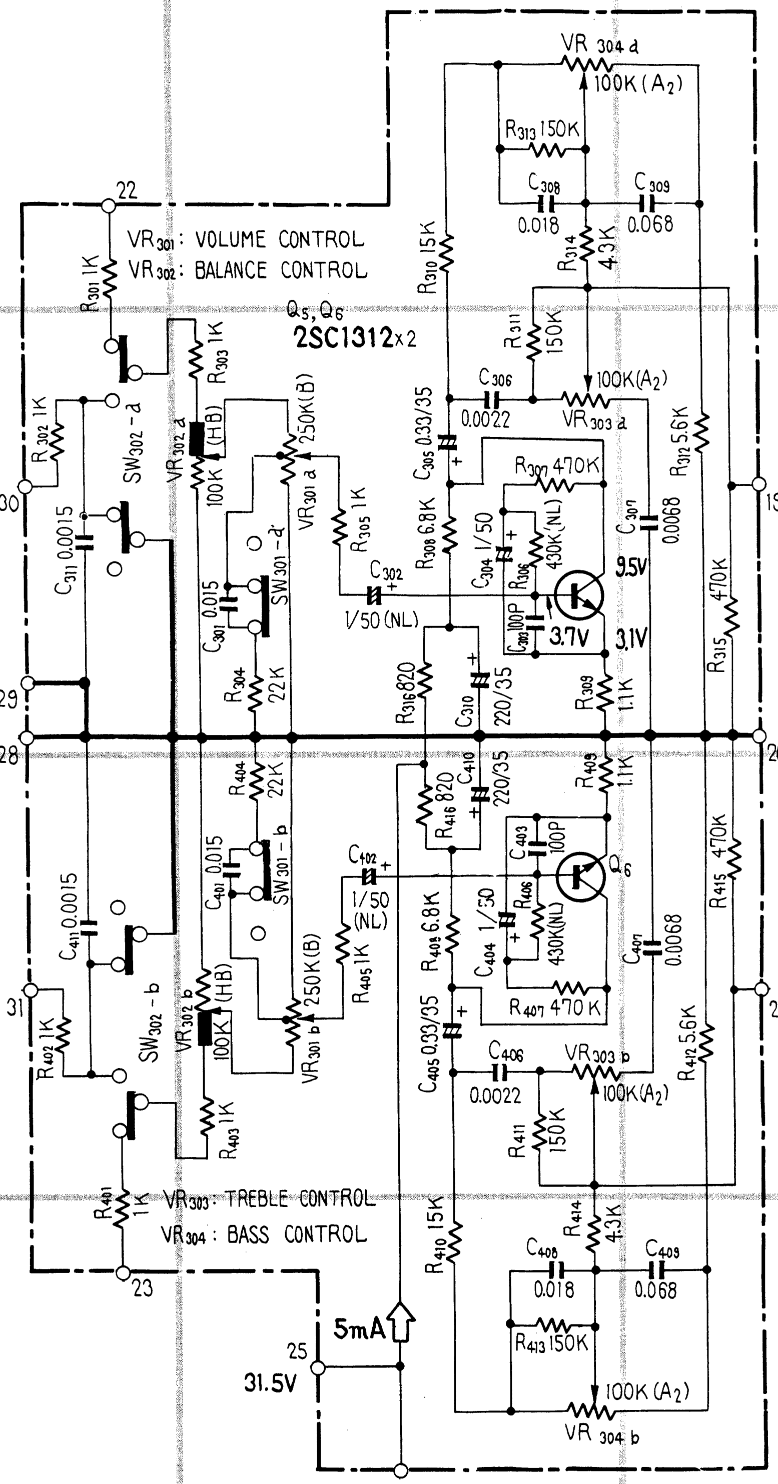
RESISTORS

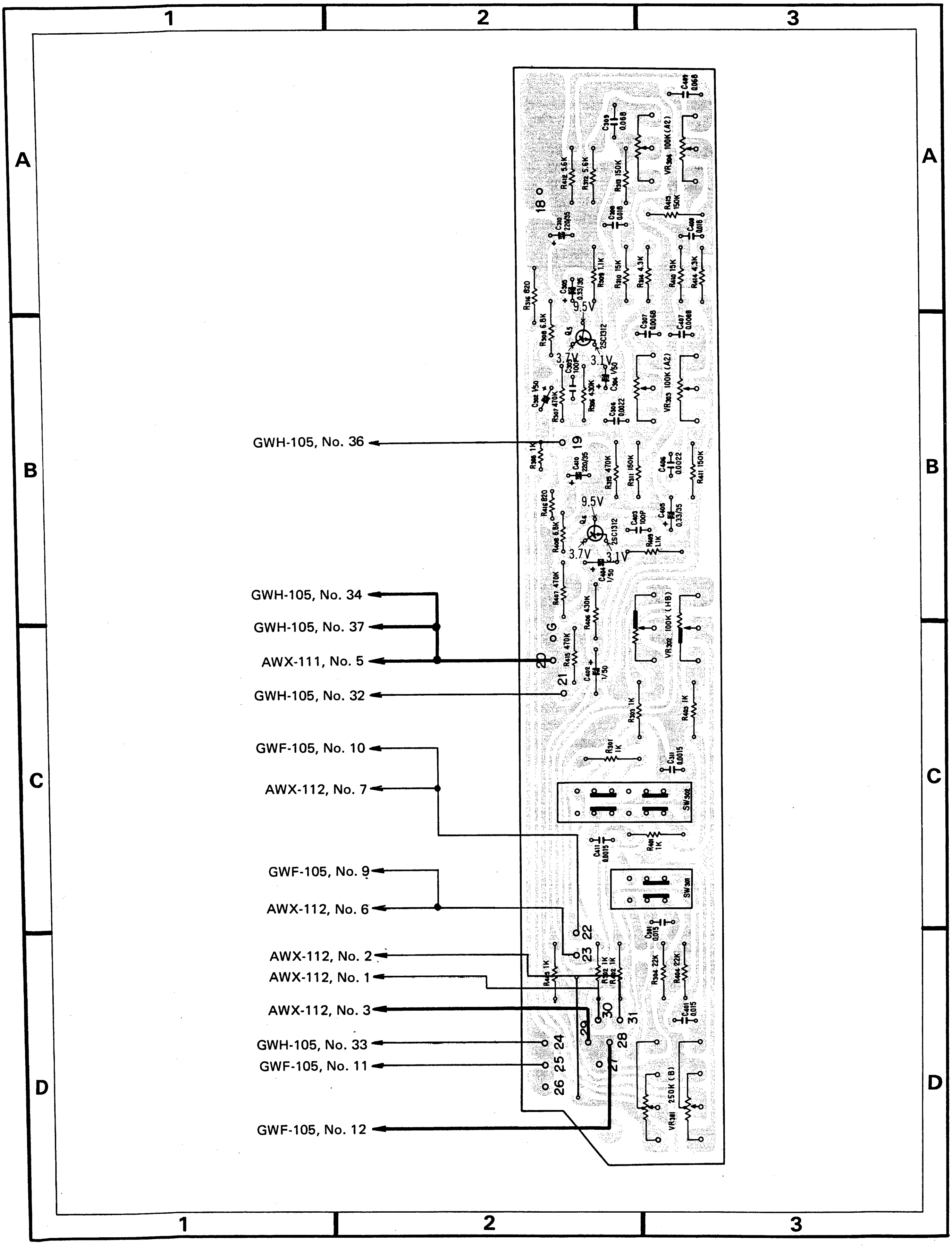
Symbol	Description		Part No.
R101	Carbon film	4.3k	RD¼PS 432J
R102	Carbon film	180k	RD¼PS 184J
R103	Carbon film	68k	RD¼PS 683J
R104	Carbon film	470k	RD¼PS 474J NL
R105	Carbon film	36k	RD¼PS 363J
R106	Carbon film	270	RD¼PS 271J
R107	Carbon film	220	RD¼PS 221J
R108	Carbon film	13k	RD¼PS 133J
R109	Carbon film	240k	RD¼PS 244J
R110	Carbon film	200	RD¼PS 201J
R111	Carbon film	5.1k	RD¼PS 512J
R112	Carbon film	220k	RD¼PS 224J
R120	Carbon film	150	RD¼PS 151J
R121	Carbon film	240k	RD¼PS 244J
R201	Carbon film	4.3k	RD¼PS 432J
R202	Carbon film	180k	RD¼PS 184J
R203	Carbon film	68k	RD¼VS 683J
R204	Carbon film	470k	RD¼PS 474J NL
R205	Carbon film	36k	RD¼PS 363J
R206	Carbon film	270	RD¼PS 271J
R207	Carbon film	220	RD¼PS 221J
R208	Carbon film	13k	RD¼PS 133J
R209	Carbon film	240k	RD¼PS 244J
R210	Carbon film	200	RD¼PS 201J
R211	Carbon film	5.1k	RD¼PS 512J
R212	Carbon film	220k	RD¼PS 224J

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SA725-F or G
Q2	Transistor	2SA725-F or G
Q3	Transistor	2SC1312-F or G
Q4	Transistor	2SC1312-F or G

4.3 TONE AMPLIFIER ASSEMBLY (GWG-105)


1
2
3
A
B
C
D
VR304 a
100K (A2)
R313 150K
C308
0.018
C309
0.068
R314
4.3K
R310 15K
22
R301 1K
VR301 : VOLUME CONTROL
VR302 : BALANCE CONTROL
Q5, Q6
2SC1312×2
R303 1K
R311
150K
C306
0.0022
100K(A2)
VR303 a
R302 1K
SW302 - a
VR302 a
(HB)
100K
250K(B)
VR301 a
C305 0.33/35
R307 470K
R312 5.6K
30
C311 0.0015
SW301 - a
R305 1K
R308 6.8K
C304 1/50
R306
430K(NL)
C307
0.0068
19
C302
1/50 (NL)
C301 0.015
C303 100P
3.7V
9.5V
3.1V
R315
470K
R304
22K
R316 820
C310
220/35
R309
1.1K
29
28
20
R404
22K
R416 820
C410
220/35
R409
1.1K
C401 0.015
SW301 - b
C402
1/50
(NL)
C403
100P
Q6
R415 470K
C411 0.0015
R405 1K
R408 6.8K
C404 1/50
R406
430K(NL)
C407
0.0068
31
R402 1K
SW302 - b
VR302 b
(HB)
100K
250K(B)
VR301 b
C405 0.33/35
R407 470K
21
C406
0.0022
VR303 b
100K(A2)
R412 5.6K
R411
150K
R403 1K
R401
1K
VR303 : TREBLE CONTROL
VR304 : BASS CONTROL
R410 15K
R414
4.3K
C408
0.018
C409
0.068
23
R413 150K
5mA
25
31.5V
100K (A2)
VR 304 b


1
2
3
A
B
C
D
GWH-105, No. 36
GWH-105, No. 34
GWH-105, No. 37
AWX-111, No. 5
GWH-105, No. 32
GWF-105, No. 10
AWX-112, No. 7
GWF-105, No. 9
AWX-112, No. 6
AWX-112, No. 2
AWX-112, No. 1
AWX-112, No. 3
GWH-105, No. 33
GWF-105, No. 11
GWF-105, No. 12
18
19
20
21
G
22
23
24
25
26
27
28
29
30
31
9.5V
3.7V
3.1V
9.5V
3.7V
3.1V
2SC1312
2SC1312
VR304 100K (A2)
VR303 100K (A2)
VR302 100K (HB)
VR301 250K (B)
SW302
SW301

Tone Amplifier Assembly (GWG-105)

SWITCHES AND OTHERS

Symbol	Description	Part No.
SW301	Lever switch (LOUDNESS)	ASK-120
SW302	Lever switch (TAPE MONITOR)	ASK-092
	Variable resistor-held metal	ANF-488
	Boss	ABN-021
	Nut 9φ	B71-004
	Shield board	ANH-331

CAPACITORS

Symbol	Description	Part No.
C301	Mylar 0.015 50V	CQMA 153J 50
C302	Electrolytic 1 50V	CEANL 010P 50
C303	Ceramic 100p 50V	CCDSL 101K 50
C304	Electrolytic 1 50V	CEA 010P 50
C305	Electrolytic 0.33 35V	CSZA R33M 35
C306	Mylar 2200p 50V	CQMA 222J 50
C307	Mylar 6800p 50V	CQMA 682J 50
C308	Mylar 0.018 50V	CQMA 183J 50
C309	Mylar 0.068 50V	CQMA 683J 50
C310	Electrolytic 220 35V	CEA 221P 35
C311	Ceramic 1500p 50V	CKDYB 152K 50
C401	Mylar 0.015 50V	CQMA 153J 50
C402	Electrolytic 1 50V	CEANL 010P 50
C403	Ceramic 100p 50V	CCDSL 101K 50
C404	Electrolytic 1 50V	CEA 101P 50
C405	Electrolytic 0.33 35V	CSZA R33M 35
C406	Mylar 2200p 50V	CQMA 222J 50
C407	Mylar 6800p 50V	CQMA 682J 50
C408	Mylar 0.018 50V	CQMA 183J 50
C409	Mylar 0.068 50V	CQMA 683J 50
C410	Electrolytic 220 35V	CEA 221P 35
C411	Ceramic 1500p 50V	CKDYB 152K 50

RESISTORS

Symbol	Description	Part No.
VR301	Variable resistor (VOLUME)250k	ACV-181
VR302	Variable resistor (BALANCE)100k	ACV-126
VR303	Variable resistor (TREBLE)100k	ACV-182
VR304	Variable resistor (BASS)100k	ACV-182
R301	Carbon film 1k	RD¼PS 102J
R302	Carbon film 1k	RD¼PS 102J
R303	Carbon film 1k	RD¼PS 102J
R304	Carbon film 22k	RD¼PS 223J
R305	Carbon film 1k	RD¼VS 102J

Symbol	Description	Part No.
R306	Carbon film 430k	RD¼PS 434J NL
R307	Carbon film 470k	RD¼PS 474J
R308	Carbon film 6.8k	RD¼PS 682J
R309	Carbon film 1.1k	RD¼PS 112J
R310	Carbon film 15k	RD¼PS 153J
R311	Carbon film 150k	RD¼PS 154J
R312	Carbon film 5.6k	RD¼PS 562J
R313	Carbon film 150k	RD¼PS 154J
R314	Carbon film 4.3k	RD¼PS 432J
R315	Carbon film 470k	RD¼PS 474J
R316	Carbon film 820	RD¼PS 821J
R401	Carbon film 1k	RD¼PS 102J
R402	Carbon film 1k	RD¼PS 102J
R403	Carbon film 1k	RD¼PS 102J
R404	Carbon film 22k	RD¼PS 223J
R405	Carbon film 1k	RD¼PS 102J
R406	Carbon film 430k	RD¼PS 434J NL
R407	Carbon film 470k	RD¼PS 474J
R408	Carbon film 6.8k	RD¼VS 682J
R409	Carbon film 1.1k	RD¼PS 112J
R410	Carbon film 15k	RD¼PS 153J
R411	Carbon film 150k	RD¼PS 154J
R412	Carbon film 5.6k	RD¼PS 562J
R413	Carbon film 150k	RD¼PS 154J
R414	Carbon film 4.3k	RD¼PS 432J
R415	Carbon film 470k	RD¼PS 474J
R416	Carbon film 820	RD¼VS 821J

SEMICONDUCTORS

Symbol	Description	Part No.
Q5	Transistor	2SC1312-F or G
Q6	Transistor	2SC1312-F or G

4.4 POWER AMPLIFIER ASSEMBLY (GWH-105)

COILS AND OTHERS

Symbol	Description		Part No.
L507	AF choke coil	1μH	ATH-011
L601	AF choke coil	1μH	ATH-011
	Heat sink		ANH-332
	Spacer		AEC-339
	Fuse clip		AKR-010
	Screw 3 x 12 (MC)		ABA-143

CAPACITORS

Symbol	Description			Part No.
C501	Electrolytic	1	50V	CEA 010P 50
C502	Mylar	0.1	50V	CQMA 104J 50
C503	Ceramic	120p	50V	CCDSL 121K 50
C504	Electrolytic	330	6V	CEA 331P 6
C505	Ceramic	18p	50V	CCDSL 180J 50
C506	Mylar	0.1	50V	CQMA 104J 50
C507	Mylar	0.047	50V	CQMA 473J 50
C508	Ceramic	120p	50V	CCDSL 121K 50
C509	Ceramic	0.047	50V	ACG-009
C601	Electrolytic	1	50V	CEA 010P 50
C602	Mylar	0.1	50V	CQMA 104J 50
C603	Ceramic	120p	50V	CCDSL 121K 50
C604	Electrolytic	330	6V	CEA 331P 6
C605	Ceramic	18p	50V	CCDSL 180J 50
C606	Mylar	0.1	50V	CQMA 104J 50
C607	Mylar	0.047	50V	CQMA 473J 50
C608	Ceramic	120p	50V	CCDSL 121K 50
C609	Ceramic	0.047	50V	ACG-009
C701	Electrolytic	4700	35V	ACH-043
C702	Electrolytic	4700	35V	ACH-043
C703	Ceramic	0.01	150V	ACG-004
C704	Ceramic	0.01	150V	ACG-004
C705	Electrolytic	1000	50V	CEA 102P 50
C706	Electrolytic	470	35V	CEA 471P 35
C707	Ceramic	0.01	50V	CKDYB 103K 50
C708	Electrolytic	220	35V	CEA 221P 35

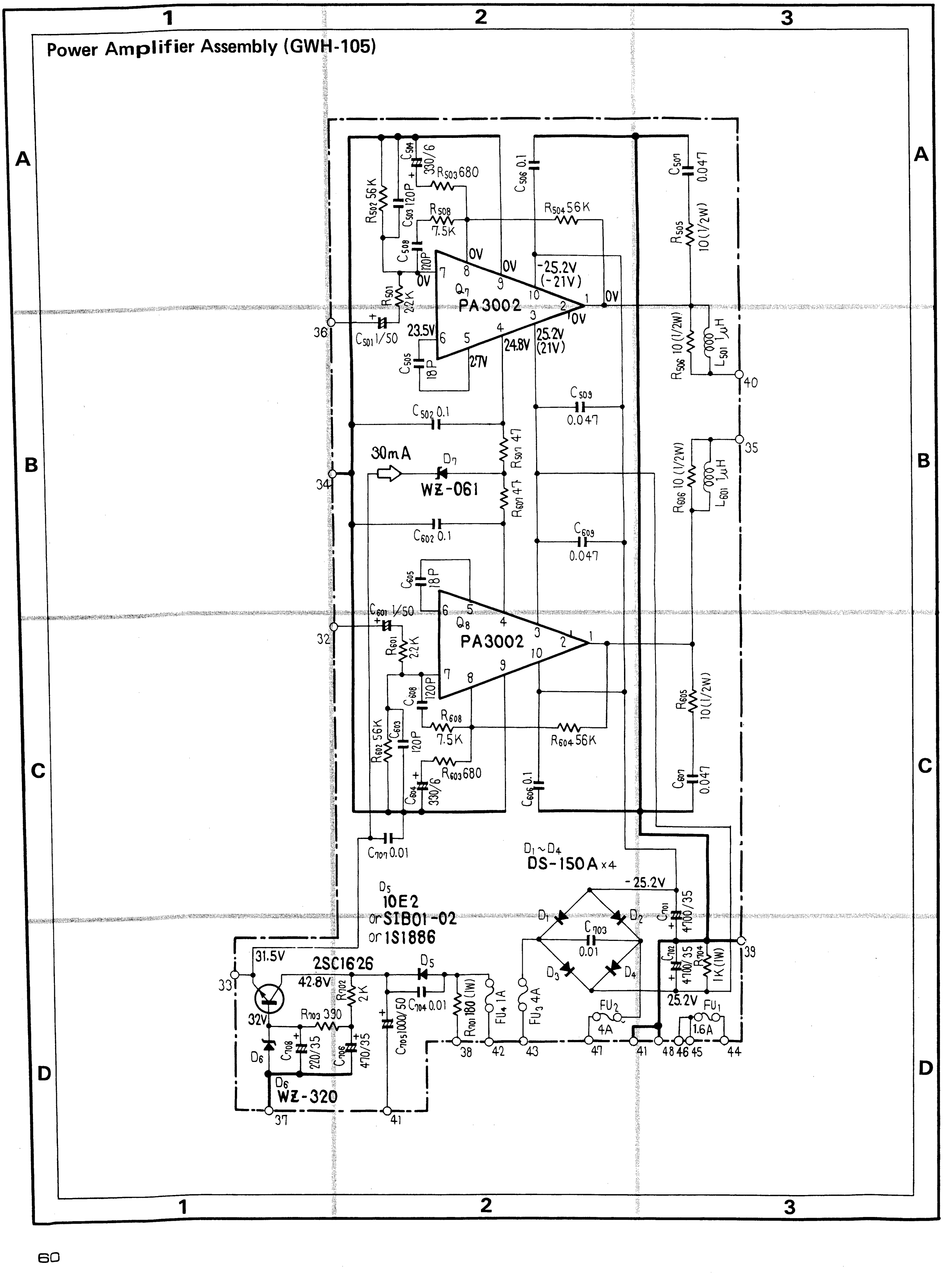
RESISTORS

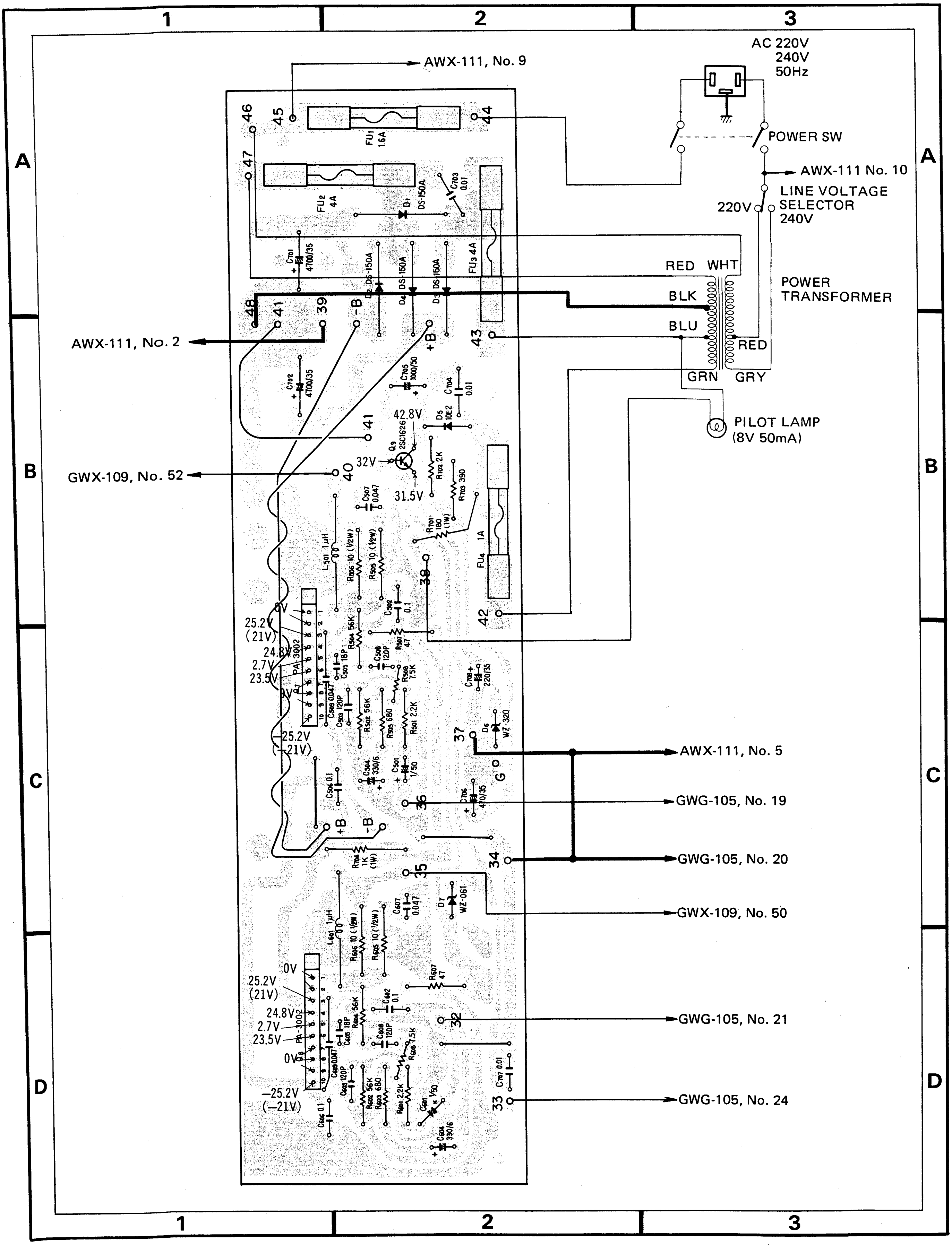
Symbol	Description			Part No.
R501	Carbon film	2.2k		RD¼PS 222J
R502	Carbon film	56k		RD¼PS 563J
R503	Carbon film	680		RD¼PS 681J
R504	Carbon film	56k		RD¼PS 563J
R505	Carbon film	10	½W	RD½PS 100J
R506	Carbon film	10	½W	RD½PS 100J
R507	Carbon film	47		RD¼PS 470J
R508	Carbon film	7.5k		RD¼PM 752J
R601	Carbon film	2.2k		RD¼PS 222J
R602	Carbon film	56k		RD¼PS 563J
R603	Carbon film	680		RD¼PM 681J
R604	Carbon film	56k		RD¼PS 563J
R605	Carbon film	10	½W	RD½PS 100J
R606	Carbon film	10	½W	RD½PS 100J
R607	Carbon film	47		RD¼PS 470J
R608	Carbon film	7.5k		RD¼PS 752J
R701	Metal oxide	180	1W	RS1P 181J
R702	Carbon film	2k		RD¼PS 202J
R703	Carbon film	39		RD¼PS 390J
R704	Metal oxide	1k	1W	RS1P 102J

SEMICONDUCTORS

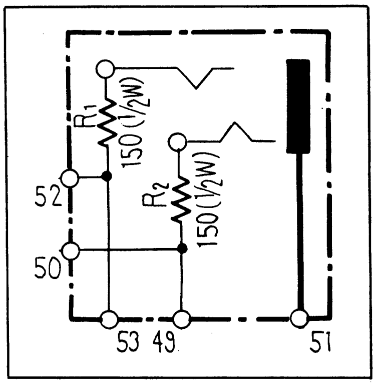
Symbol	Description	Part No.
Q7	IC	PA3002-A
Q8	IC	PA3002-A
Q9	Transistor	2SC1626-O or Y
D1	Diode	DS-150A
D2	Diode	DS-150A
D3	Diode	DS-150A
D4	Diode	DS-150A
D5	Diode	10E2 (1S1886 or SIB01-02)
D6	Zener diode	WZ-320
D7	Zener diode	WZ-061

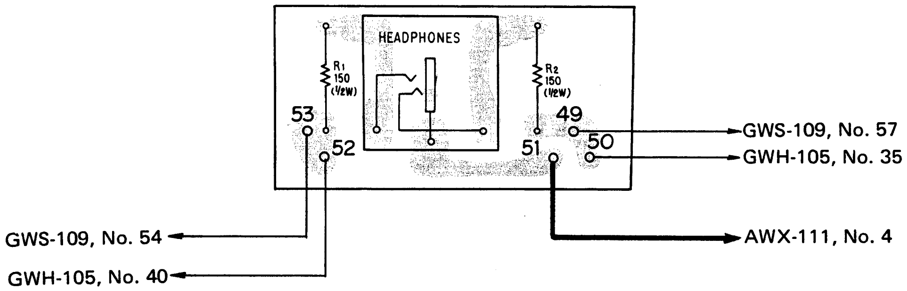
Power Amplifier Assembly (GWH-105)


1
2
3
A
B
C
D
C504 330/6
R503 680
R502 56K
C503 120P
R508 7.5K
C508 120P
R504 56K
C506 0.1
C507 0.047
R505 10(1/2W)
0V
-25.2V
(-21V)
R501 2.2K
Q7
PA3002
23.5V
24.8V
25.2V
(21V)
27V
C501 1/50
C505 18P
R506 10(1/2W)
L501 1μH
36
40
C502 0.1
C509 0.047
30mA
D7
WZ-061
R507 47
R607 47
34
35
R606 10(1/2W)
L601 1μH
C602 0.1
C609 0.047
C605 18P
C601 1/50
Q8
PA3002
32
R601 2.2K
C608 120P
R608 7.5K
R602 56K
C603 120P
R603 680
C604 330/6
R604 56K
C606 0.1
R605 10(1/2W)
C607 0.047
C707 0.01
D1～D4
DS-150A×4
D5
10E2
or SIB01-02
or 1S1886
-25.2V
D1
D2
D3
D4
C703 0.01
C701 4700/35
C702 4700/35
R704 1K(1W)
39
31.5V
2SC1626
42.8V
R702 2K
33
32V
R703 390
C704 0.01
R701 180(1W)
FU4 1A
FU3 4A
FU2 4A
FU1 1.6A
25.2V
C705 1000/50
C708 220/35
C706 470/35
D6
D6
WZ-320
37
41
38
42
43
47
41
48
46
45
44


1
2
3
A
B
C
D
AWX-111, No. 9
AC 220V
240V
50Hz
POWER SW
AWX-111 No. 10
LINE VOLTAGE
SELECTOR
220V
240V
RED
WHT
BLK
BLU
RED
GRN
GRY
POWER
TRANSFORMER
PILOT LAMP
(8V 50mA)
FU1 1.6A
FU2 4A
FU3 4A
FU4 1A
D1 DS-150A
D2 DS-150A
D3 DS-150A
D4 DS-150A
D5 10E2
D6 WZ-320
D7 WZ-061
C701 4700/35
C702 4700/35
C703 0.01
C704 0.01
C705 1000/50
C706 470/35
C707 0.01
C708 220/35
Q9 2SC1626
42.8V
32V
31.5V
R701 180 (1W)
R702 2K
R703 390
R704 1K (1W)
AWX-111, No. 2
GWX-109, No. 52
AWX-111, No. 5
GWG-105, No. 19
GWG-105, No. 20
GWX-109, No. 50
GWG-105, No. 21
GWG-105, No. 24
48
41
39
-B
+B
43
44
45
46
47
40
38
42
37
G
36
35
34
32
33
0V
25.2V
(21V)
24.8V
2.7V
23.5V
0V
-25.2V
(-21V)
PA-3002
L501 1μH
R506 10 (1/2W)
R505 10 (1/2W)
C507 0.047
C502 0.1
R507 47
R504 56K
C505 18P
C508 120P
R508 1.5K
C509 0.047
C503 120P
R502 56K
R503 680
R501 2.2K
C504 330/6
C501 1/50
C506 0.1
L601 1μH
R606 10 (1/2W)
R605 10 (1/2W)
C607 0.047
R607 47
C602 0.1
R604 56K
C605 18P
C608 120P
R608 1.5K
C609 0.047
C603 120P
R602 56K
R603 680
R601 2.2K
C601 1/50
C604 330/6
C606 0.1

4.5 HEADPHONES ASSEMBLY (GWX-109)

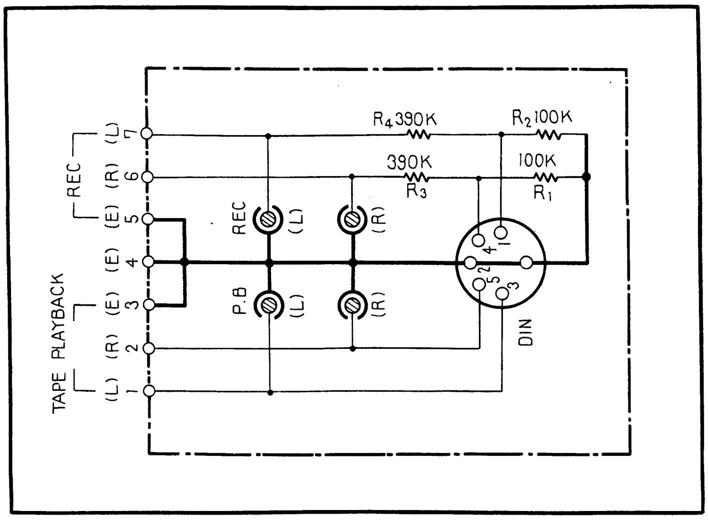

R1
150 (½W)
R2
150 (½W)
52
50
53
49
51

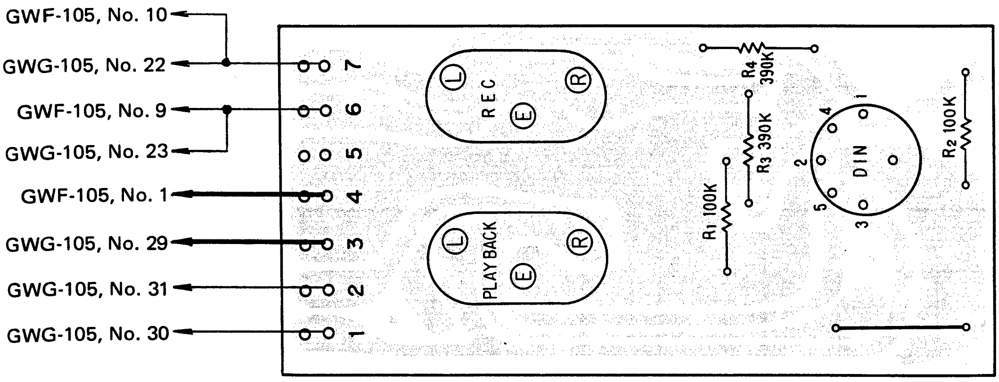

HEADPHONES
R1
150
(½W)
R2
150
(½W)
53
52
49
50
51
GWS-109, No. 57
GWH-105, No. 35
AWX-111, No. 4
GWS-109, No. 54
GWH-105, No. 40

Parts List

Symbol	Description			Part No.
	Phone jack (A)			AKN-009
R1	Carbon film	150	½W	RD½PS 151J
R2	Carbon film	150	½W	RD½PS 151J

4.6 DIN ASSEMBLY (AWX-112)

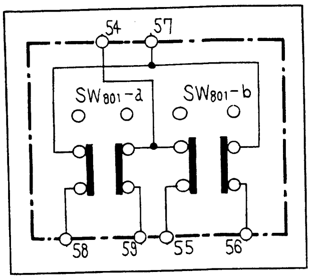

R4 390K
R2 100K
390K
R3
100K
R1
REC
TAPE PLAYBACK
(L) 7
(R) 6
(E) 5
(E) 4
(E) 3
(R) 2
(L) 1
REC
(L)
(R)
P.B
(L)
(R)
1
2
3
4
5
DIN

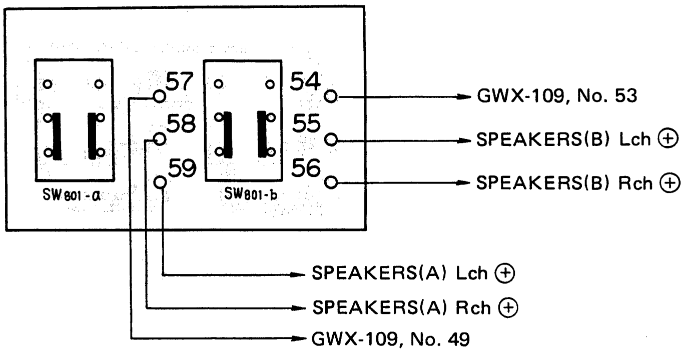

GWF-105, No. 10
GWG-105, No. 22
GWF-105, No. 9
GWG-105, No. 23
GWF-105, No. 1
GWG-105, No. 29
GWG-105, No. 31
GWG-105, No. 30
7
6
5
4
3
2
1
REC
L
E
R
PLAYBACK
L
E
R
R4 390K
R3 390K
R1 100K
R2 100K
DIN
1
2
3
4
5

Parts List

Symbol	Description	Part No.
R1	Carbon film 100k	RD¼PS 104J
R2	Carbon film 100k	RD¼PS 104J
R3	Carbon film 390k	RD¼PS 394J
R4	Carbon film 390k	RD¼PS 394J
	5P DIN socket	AKP-011
	4P pin jack	AKB-045

4.7 SPEAKER SELECTOR ASSEMBLY (GWS-109)

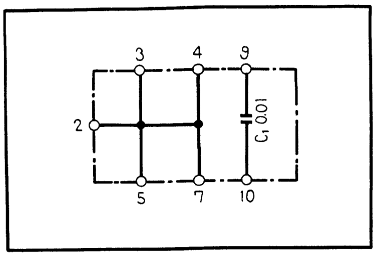

54
57
SW801-a
SW801-b
58
59
55
56

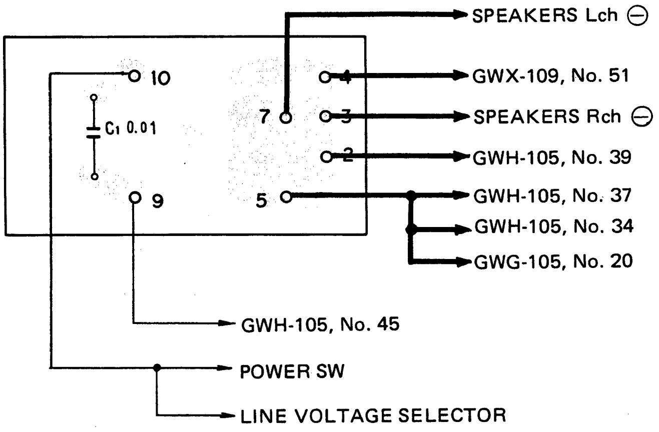

57
58
59
54
55
56
SW801-a
SW801-b
GWX-109, No. 53
SPEAKERS(B) Lch ⊕
SPEAKERS(B) Rch ⊕
SPEAKERS(A) Lch ⊕
SPEAKERS(A) Rch ⊕
GWX-109, No. 49

Part List

Symbol	Description	Part No.
SW801	Push switch (SPEAKERS)	ASG-117

4.8 EARTH ASSEMBLY (AWX-111)


3
4
9
2
C1 0.01
5
7
10


SPEAKERS Lch ⊖
10
4
GWX-109, No. 51
C1 0.01
7
3
SPEAKERS Rch ⊖
2
GWH-105, No. 39
9
5
GWH-105, No. 37
GWH-105, No. 34
GWG-105, No. 20
GWH-105, No. 45
POWER SW
LINE VOLTAGE SELECTOR

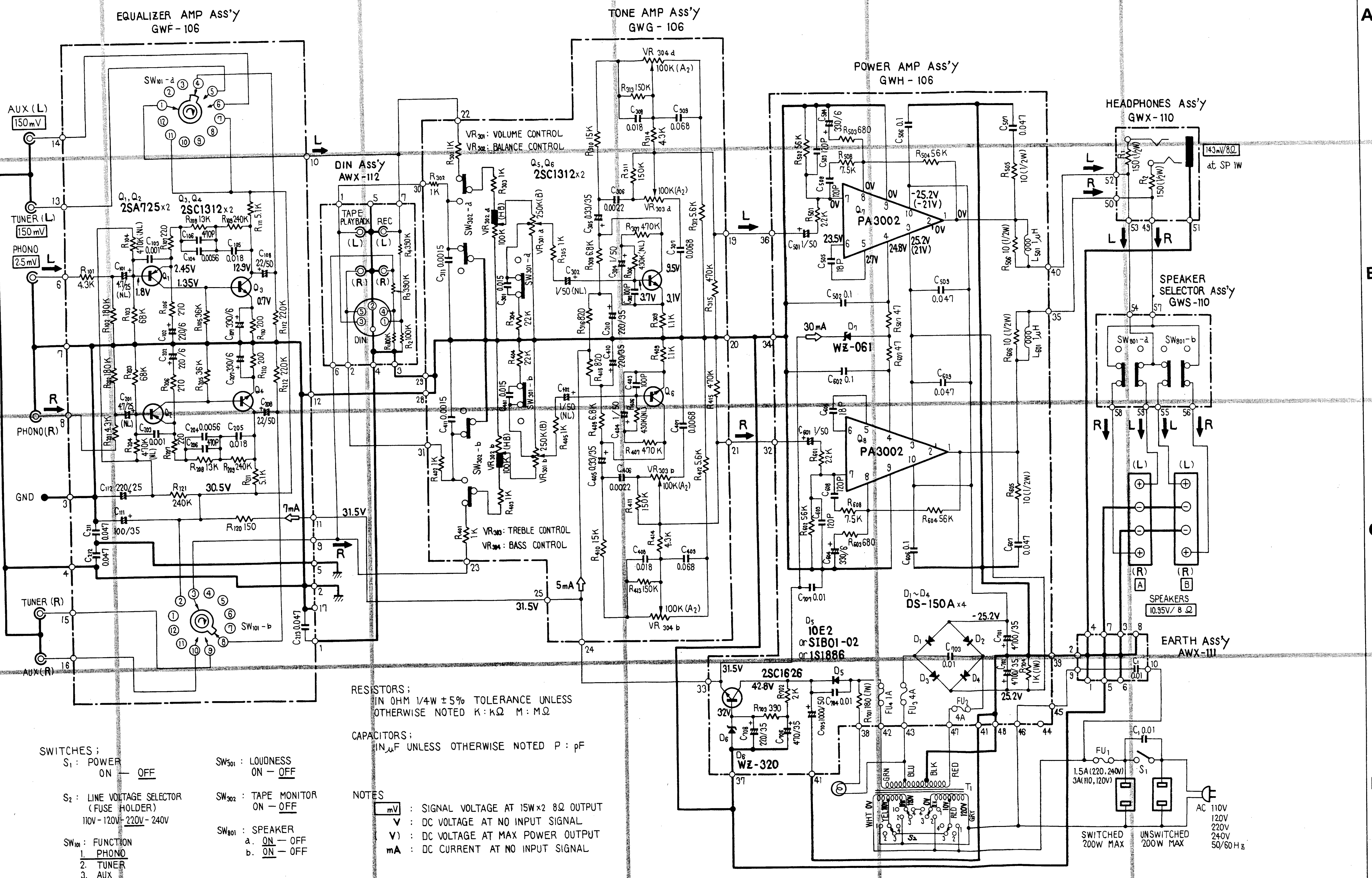
Part List

Symbol	Description	Part No.
	Ceramic 0.01 250V	ACG-001

5. MODEL SA-5500 II/S

5.1 SCHEMATIC DIAGRAM

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.


1
2
3
4
5
6
A
B
C
D
EQUALIZER AMP ASS'Y
GWF-106
SW101-a
AUX (L)
150mV
TUNER (L)
150mV
PHONO
2.5mV
L
R101
4.3K
Q1, Q2
2SA725×2
Q3, Q4
2SC1312×2
R109 13K
R108 240K
R111 5.1K
C106 470P
C104 0.0056
C105 0.018
C108 22/50
C103 0.001
C101 47/25 (NL)
R104 470K (NL)
R103 68K
R102 180K
R105 220
R106 36K
R107 330/6
R110 200
R112 220K
2.45V
1.35V
1.8V
12.9V
0.7V
PHONO (R)
R
Q2
Q4
C201 47/25 (NL)
C203 0.001
C204 0.0056
C205 0.018
C206 22/50
R208 13K
R209 240K
R211 5.1K
GND
C112 220/25
R121 240K
30.5V
C111 100/35
R120 150
7mA
31.5V
C113 0.047
C212 0.047
TUNER (R)
AUX (R)
SW101-b
C213 0.047
DIN Ass'y
AWX-112
TAPE PLAYBACK
REC
(L)
(R)
DIN
R3 390K
R4 390K
R1 100K
R2 100K
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
Q5, Q6
2SC1312×2
R302 1K
R301 1K
R303 1K
SW302-a
SW302-b
VR302-a 100K (HB)
VR301-a 250K (B)
VR301-b 250K (B)
SW301-a
SW301-b
C311 0.0015
C411 0.0015
C301 0.015
C401 0.015
R304 22K
R404 22K
R305 1K
R402 1K
R403 1K
R401 1K
VR303: TREBLE CONTROL
VR304: BASS CONTROL
5mA
31.5V
TONE AMP Ass'y
GWG-106
VR304-a
100K (A2)
R313 150K
C308 0.018
C309 0.068
R314 4.3K
R311 150K
R310 15K
C305 0.033/35
C306 0.0022
VR303-a 100K (A2)
R307 470K
R306 430K (NL)
C304 1/50
C302 1/50 (NL)
R308 6.8K
C303 10P
3.7V
3.1V
9.5V
R309 1.1K
R315 470K
R312 5.8K
C307 0.068
R316 820
C310 220/35
R418 820
C410 220/35
Q6
R409 1.1K
C402 1/50 (NL)
R408 6.8K
R405 1K
C404 1/50
R406 430K (NL)
R407 470K
C405 0.033/35
C406 0.0022
VR303-b 100K (A2)
R411 150K
R412 5.6K
R415 470K
C407 0.068
R410 15K
C408 0.018
C409 0.068
R414 4.3K
R413 150K
100K (A2)
VR304-b
POWER AMP Ass'y
GWH-106
C504 330/6
R503 680
C503 120P
R502 56K
C502 120P
R508 7.5K
R504 56K
C506 0.1
C501 1/50
R501 22K
C505 18P
23.5V
0V
-25.2V
(-21V)
Q7
PA3002
24.8V
25.2V
(21V)
27V
C502 0.1
C503 0.047
30mA
D7
WZ-061
R507 47
R607 47
C602 0.1
C603 0.047
C604 18P
C601 1/50
R601 22K
Q8
PA3002
R603 56K
C602 120P
C603 120P
R608 7.5K
R604 56K
R605 680
C604 330/6
C606 0.1
C701 0.01
C507 0.047
R505 10 (1/2W)
R506 10 (1/2W)
L501 1μH
R606 10 (1/2W)
L601 1μH
R605 10 (1/2W)
C607 0.047
HEADPHONES Ass'y
GWX-110
R1 150 (1/2W)
R2 150 (1/2W)
143mV/8Ω
at SP 1W
SPEAKER SELECTOR Ass'y
GWS-110
SW801-a
SW801-b
(L)
(R)
A
B
SPEAKERS
10.35V/8Ω
EARTH Ass'y
AWX-111
D1~D4
DS-150A×4
D1
D2
D3
D4
C703 0.01
-25.2V
C704 4700/35
C705 4700/35
R706 1K (1W)
25.2V
D5
10E2
or S1B01-02
or 1S1886
31.5V
2SC1626
42.8V
R702 2K
R703 390
32V
D6
WZ-320
C706 220/35
C708 470/35
C705 1000/50
C704 0.01
R701 180 (1W)
FU4 1A
FU3 4A
FU2 4A
GRN
BLU
BLK
RED
WHT
T1
S2
110V
120V
220V
240V
C1 0.01
FU1
1.5A (220, 240V)
3A (110, 120V)
S1
AC 110V
120V
220V
240V
50/60Hz
SWITCHED
200W MAX
UNSWITCHED
200W MAX

RESISTORS;
IN OHM 1/4W ±5% TOLERANCE UNLESS
OTHERWISE NOTED K : kΩ M : MΩ

CAPACITORS;
IN μF UNLESS OTHERWISE NOTED P : pF

SWITCHES;
S₁ : POWER
ON — OFF

S₂ : LINE VOLTAGE SELECTOR
(FUSE HOLDER)
110V - 120V - 220V - 240V

SW101 : FUNCTION
1. PHONO
2. TUNER
3. AUX

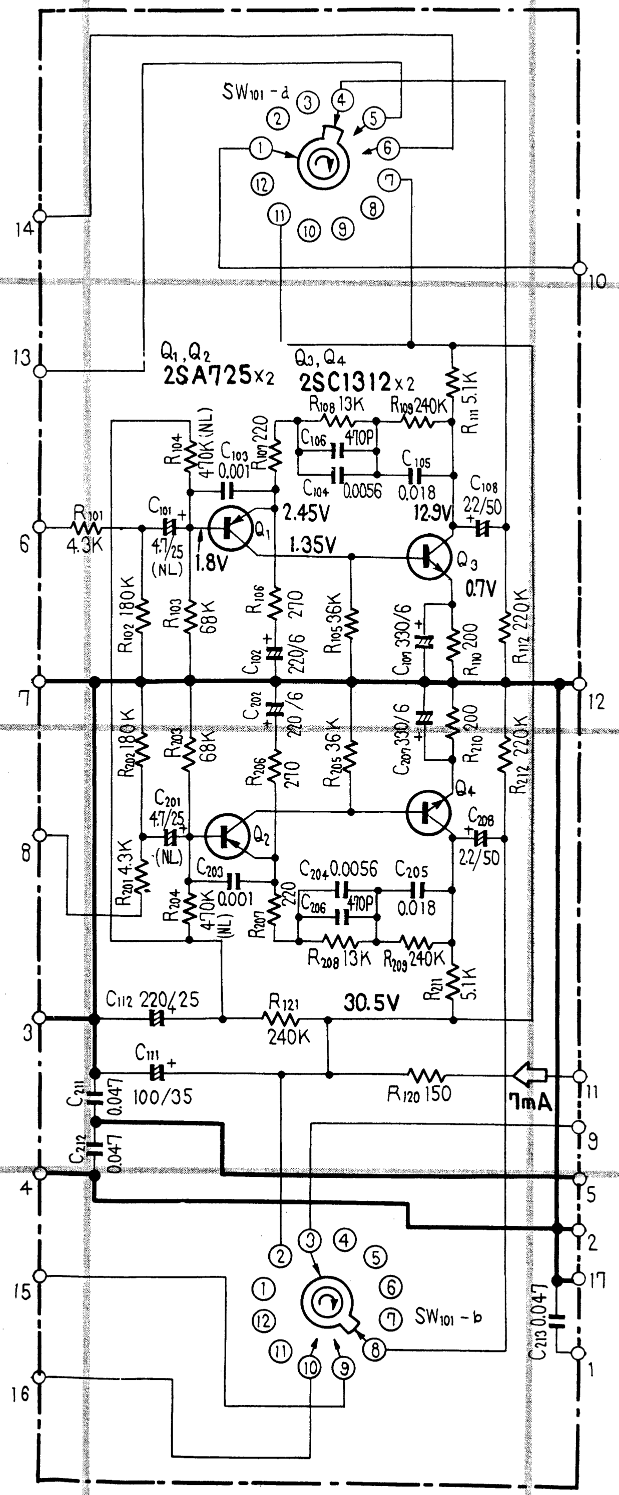
SW301 : LOUDNESS
ON — OFF

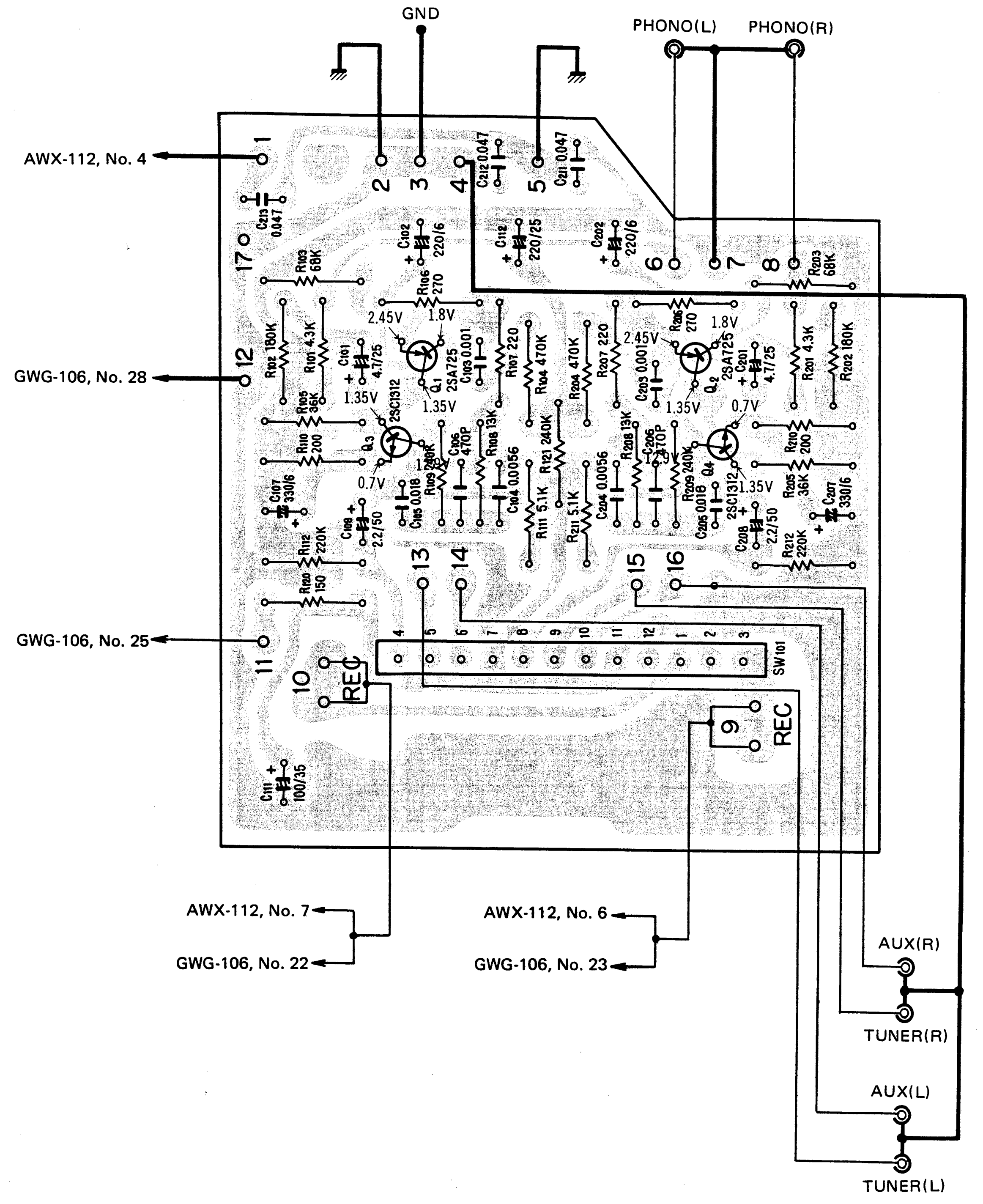
SW302 : TAPE MONITOR
ON — OFF

SW801 : SPEAKER
a. ON — OFF
b. ON — OFF

NOTES
mV : SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
V : DC VOLTAGE AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT MAX POWER OUTPUT
mA : DC CURRENT AT NO INPUT SIGNAL

5.2 EQUALIZER AMPLIFIER ASSEMBLY (GWF-106)


SW101 - a
Q1, Q2
2SA725×2
Q3, Q4
2SC1312×2
R101 4.3K
C101 4.7/25 (NL)
R104 470K (NL)
C103 0.001
R107 220
R108 13K
R109 240K
R111 5.1K
C106 470P
C104 0.0056
C105 0.018
C108 22/50
2.45V
1.8V
1.35V
12.9V
0.7V
R102 180K
R103 68K
R106 270
R105 36K
C102 220/6
C107 330/6
R110 200
R112 220K
R202 180K
R203 68K
C202 220/6
R206 270
R205 36K
C207 330/6
R210 200
R212 220K
C201 4.7/25 (NL)
R201 4.3K
R204 470K (NL)
C203 0.001
R207 220
C204 0.0056
C206 470P
C205 0.018
C208 22/50
R208 13K
R209 240K
R211 5.1K
C112 220/25
R121 240K
30.5V
C111 100/35
R120 150
7mA
C211 0.047
C212 0.047
C213 0.047
SW101 - b
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17


GND
PHONO(L)
PHONO(R)
AWX-112, No. 4
GWG-106, No. 28
GWG-106, No. 25
AWX-112, No. 7
GWG-106, No. 22
AWX-112, No. 6
GWG-106, No. 23
AUX(R)
TUNER(R)
AUX(L)
TUNER(L)
SW101
REC
2SC1312
2SA725
C212 0.047
C211 0.047
C213 0.047
C111 100/35
2.45V
1.8V
1.35V
0.7V

Equalizer Amplifier Assembly (GWF-106)

SWITCH AND OTHERS

Symbol	Description	Part No.
SW101	Rotary switch (FUNCTION) Switch-held metal Nut 9φ	ASD-064 ANF-487 B71-004

CAPACITORS

Symbol	Description	Part No.
C101	Electrolytic 4.7 25V	CEANL 4R7P 25
C102	Electrolytic 220 6V	CEA 221P 6
C103	Ceramic 1000p 50V	CKDYB 102K 50
C104	Mylar 5600p 50V	CQMA 562J 50
C105	Mylar 0.018 50V	CQMA 183J 50
C106	Ceramic 470p 50V	CKDYB 471K 50
C107	Electrolytic 330 6V	CEA 331P 6
C108	Electrolytic 2.2 50V	CEA 2R2P 50
C111	Electrolytic 100 35V	CEA 101P 35
C112	Electrolytic 220 25V	CEA 221P 25
C201	Electrolytic 4.7 25V	CEANL 4R7P 25
C202	Electrolytic 220 6V	CEA 221P 6
C203	Ceramic 1000p 50V	CKDYB 102K 50
C204	Mylar 5600p 50V	CQMA 562J 50
C205	Mylar 0.018 50V	CQMA 183J 50
C206	Ceramic 470p 50V	CKDYB 471K 50
C207	Electrolytic 330 5V	CEA 331P 6
C208	Electrolytic 2.2 50V	CEA 2R2P 50
C211	Ceramic 0.047 50V	CKDYF 473Z 50
C212	Ceramic 0.047 50V	CKDYF 473Z 50
C213	Ceramic 0.047 50V	CKDYF 473Z 50

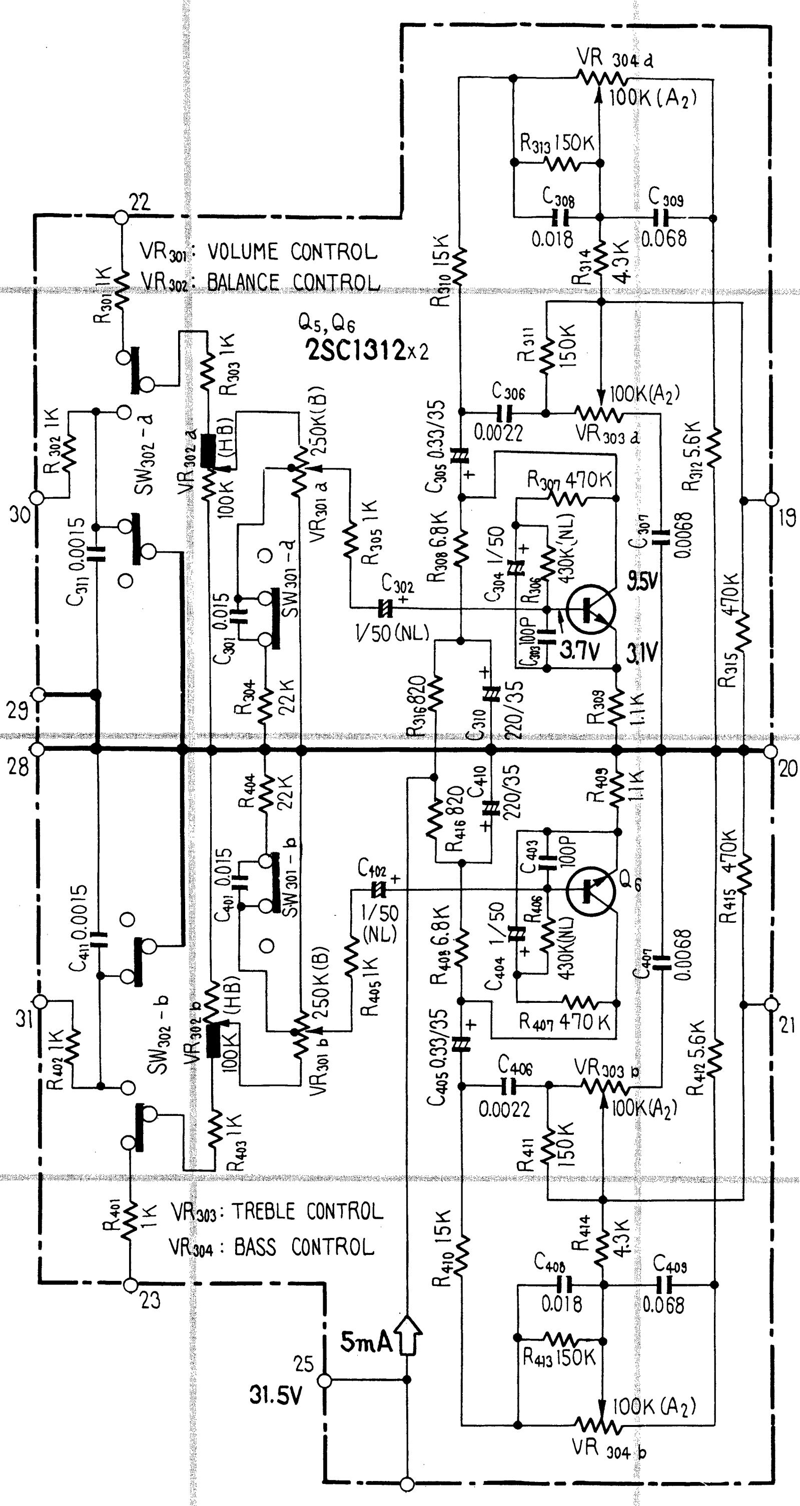
RESISTORS

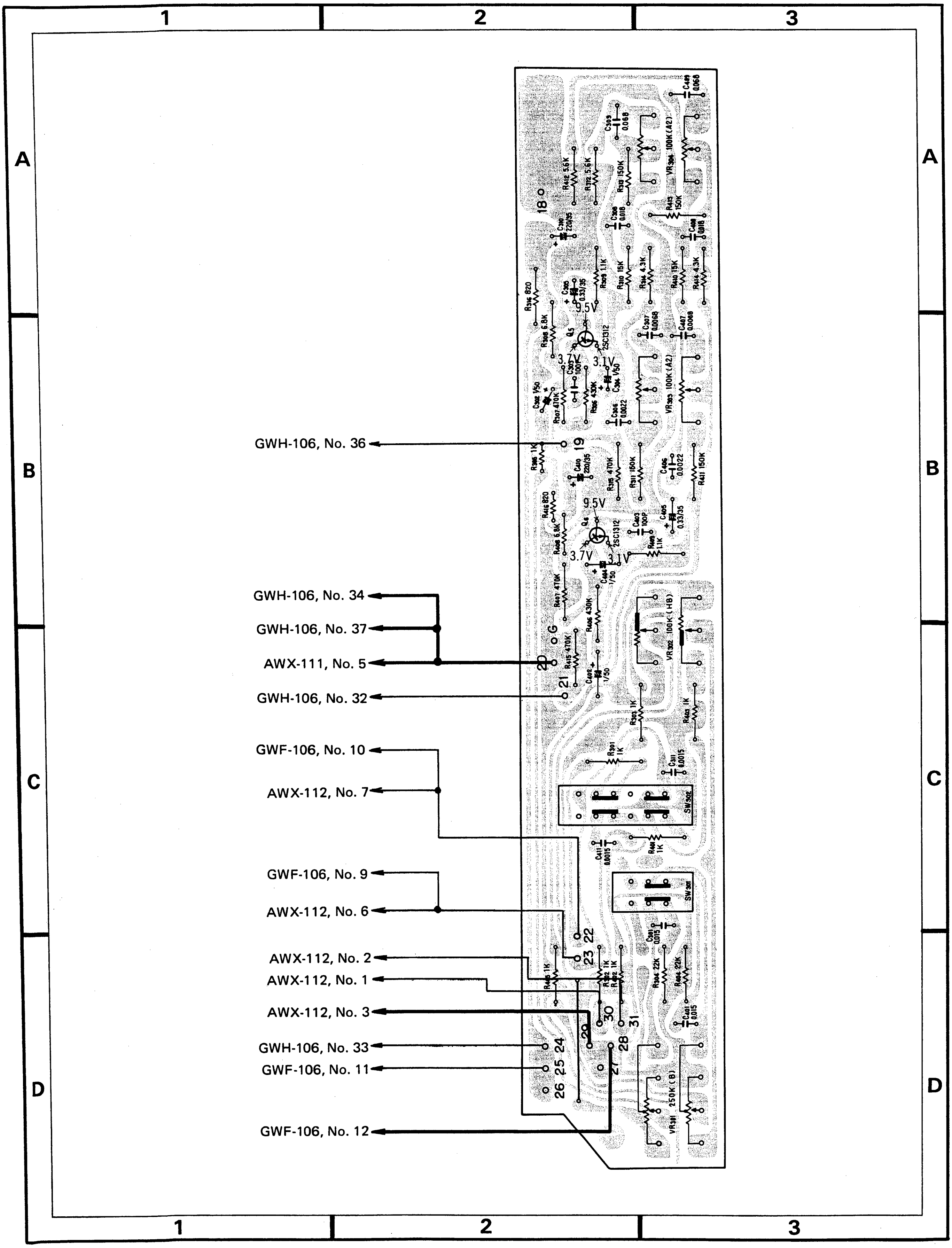
Symbol	Description	Part No.
R101	Carbon film 4.3k	RD¼PS 432J
R102	Carbon film 180k	RD¼PS 184J
R103	Carbon film 68k	RD¼PS 683J
R104	Carbon film 470k	RD¼PS 474J NL
R105	Carbon film 36k	RD¼PS 363J
R106	Carbon film 270	RD¼PS 271J
R107	Carbon film 220	RD¼PS 221J
R108	Carbon film 13k	RD¼PS 133J
R109	Carbon film 240k	RD¼PS 244J
R110	Carbon film 200	RD¼PS 201J
R111	Carbon film 5.1k	RD¼PS 512J
R112	Carbon film 220k	RD¼PS 224J
R120	Carbon film 150	RD¼PS 151J
R121	Carbon film 240k	RD¼PS 244J
R201	Carbon film 4.3k	RD¼PS 432J
R202	Carbon film 180k	RD¼PS 184J
R203	Carbon film 68k	RD¼VS 683J
R204	Carbon film 470k	RD¼PS 474J NL
R205	Carbon film 36k	RD¼PS 363J
R206	Carbon film 270	RD¼PS 271J
R207	Carbon film 220	RD¼PS 221J
R208	Carbon film 13k	RD¼PS 133J
R209	Carbon film 240k	RD¼PS 244J
R210	Carbon film 200	RD¼PS 201J
R211	Carbon film 5.1k	RD¼PS 512J
R212	Carbon film 220k	RD¼PS 224J

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SA725-F or G
Q2	Transistor	2SA725-F or G
Q3	Transistor	2SC1312-F or G
Q4	Transistor	2SC1312-F or G

5.3 TONE AMPLIFIER ASSEMBLY (GWG-106)


VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
VR303: TREBLE CONTROL
VR304: BASS CONTROL
Q5, Q6
2SC1312x2
22
23
25
28
29
30
31
19
20
21
31.5V
5mA
R301 1K
R302 1K
R303 1K
SW302-a
VR302 a (HB) 100K
VR301 a 250K(B)
SW301-a
C301 0.015
C311 0.0015
R304 22K
R305 1K
C302 1/50(NL)
VR304 a 100K(A2)
R313 150K
C308 0.018
C309 0.068
R314 4.3K
R310 15K
R311 150K
C306 0.0022
VR303 a 100K(A2)
C305 0.33/35
R307 470K
R308 6.8K
C304 1/50
R306 430K(NL)
C303 100P
9.5V
3.7V
3.1V
C307 0.0068
R312 5.6K
R315 470K
R316 820
C310 220/35
R309 1.1K
R404 22K
C401 0.015
SW301-b
C402 1/50 (NL)
R405 1K
VR301 b 250K(B)
VR302 b (HB) 100K
SW302-b
C411 0.0015
R402 1K
R403 1K
R401 1K
R416 820
C410 220/35
R403 1.1K
C403 100P
Q6
R406 430K(NL)
C404 1/50
R409 6.8K
R407 470K
C407 0.0068
C405 0.33/35
C406 0.0022
VR303 b 100K(A2)
R411 150K
R412 5.6K
R415 470K
R410 15K
R414 4.3K
C408 0.018
C409 0.068
R413 150K
VR304 b 100K(A2)


1
2
3
A
B
C
D
GWH-106, No. 36
GWH-106, No. 34
GWH-106, No. 37
AWX-111, No. 5
GWH-106, No. 32
GWF-106, No. 10
AWX-112, No. 7
GWF-106, No. 9
AWX-112, No. 6
AWX-112, No. 2
AWX-112, No. 1
AWX-112, No. 3
GWH-106, No. 33
GWF-106, No. 11
GWF-106, No. 12
18
19
20
21
22
23
24
25
26
27
28
29
30
31
G
9.5V
3.7V
3.1V
2SC1312
VR304 100K (A2)
VR303 100K (A2)
VR302 100K (HB)
VR301 250K (B)
SW302
SW301

Tone Amplifier Assembly (GWG-106)

SWITCHES AND OTHERS

Symbol	Description	Part No.
S301	Lever switch (LOUDNESS)	ASK-120
S302	Lever switch (TAPE MONITOR)	ASK-092
	Variable resistor-held matal	ANF-488
	Boss	ABN-021
	Nut 9φ	B71-004
	Shield board	ANH-331

CAPACITORS

Symbol	Description			Part No.
C301	Mylar	0.015	50V	CQMA 153J 50
C302	Electrolytic	1	50V	CEANL 010P 50
C303	Ceramic	100p	50V	CCDSL 101K 50
C304	Electrolytic	1	50V	CEA 010P 50
C305	Electrolytic	0.33	35V	CSZA R33M 35
C306	Mylar	2200p	50V	CQMA 222J 50
C307	Mylar	6800p	50V	CQMA 682J 50
C308	Mylar	0.018	50V	CQMA 183J 50
C309	Mylar	0.068	50V	CQMA 683J 50
C310	Electrolytic	220	35V	CEA 221P 35
C311	Ceramic	1500p	50V	CKDYB 152K 50
C401	Mylar	0.015	50V	CQMA 153J 50
C402	Electrolytic	1	50V	CEANL 010P 50
C403	Ceramic	100p	50V	CCDSL 101K 50
C404	Electrolytic	1	50V	CEA 010P 50
C405	Electrolytic	0.33	35V	CSZA R33M 35
C406	Mylar	2200p	50V	CQMA 222J 50
C407	Mylar	6800p	50V	CQMA 682J 50
C408	Mylar	0.018	50V	CQMA 183J 50
C409	Mylar	0.068	50V	CQMA 683J 50
C410	Electrolytic	220	35V	CEA 221P 35
C411	Ceramic	1500p	50V	CKDYB 152K 50

RESISTORS

Symbol	Description		Part No.
VR301	Variable resistor (VOLUME)	250k	ACV-181
VR302	Variable resistor (BALANCE)	100k	ACV-126
VR303	Variable resistor (TREBLE)	100k	ACV-182
VR304	Variable resistor (BASS)	100k	ACV-182
R301	Carbon film	1k	RD¼PS 102J
R302	Carbon film	1k	RD¼PS 102J
R303	Carbon film	1k	RD¼PS 102J
R304	Carbon film	22k	RD¼PS 223J
R305	Carbon film	1k	RD¼VS 102J
R306	Carbon film	430k	RD¼PS 434J NL
R307	Carbon film	470k	RD¼PS 474J
R308	Carbon film	6.8k	RD¼PS 682J
R309	Carbon film	1.1k	RD¼PS 112J
R310	Carbon film	15k	RD¼PS 153J
R311	Carbon film	150k	RD¼PS 154J
R312	Carbon film	5.6k	RD¼PS 562J
R313	Carbon film	150k	RD¼PS 154J
R314	Carbon film	4.3k	RD¼PS 432J
R315	Carbon film	470k	RD¼PS 474J
R316	Carbon film	820	RD¼PS 821J
R401	Carbon film	1k	RD¼PS 102J
R402	Carbon film	1k	RD¼PS 102J
R403	Carbon film	1k	RD¼PS 102J
R404	Carbon film	22k	RD¼PS 223J
R405	Carbon film	1k	RD¼PS 102J
R406	Carbon film	430k	RD¼PS 434J NL
R407	Carbon film	470k	RD¼PS 474J
R408	Carbon film	6.8k	RD¼VS 682J
R409	Carbon film	1.1k	RD¼PS 112J
R410	Carbon film	15k	RD¼PS 153J
R411	Carbon film	150k	RD¼PS 154J
R412	Carbon film	5.6k	RD¼PS 562J
R413	Carbon film	150k	RD¼PS 154J
R414	Carbon film	4.3k	RD¼PS 432J
R415	Carbon film	470k	RD¼PS 474J
R416	Carbon film	820	RD¼VS 821J

SEMICONDUCTORS

Symbol	Description	Part No.
Q5	Transistor	2SC1312-F or G
Q6	Transistor	2SC1312-F or G

5.4 POWER AMPLIFIER ASSEMBLY (GWH-106)

COILS AND OTHERS

Symbol	Description	Part No.
L501	AF choke coil 1μH	ATH-011
L601	AF choke coil 1μH	ATH-011
	Heat sink	ANH-332
	Spacer	AEC-339
	Fuse clip	AKR-013
	Screw 3 x 12 (MC)	ABA-143

CAPACITORS

Symbol	Description	Part No.
C501	Electrolytic 1 50V	CEA 010P 50
C502	Mylar 0.1 50V	CQMA 104J 50
C503	Ceramic 120p 50V	CCDSL 121K 50
C504	Electrolytic 330 6V	CEA 331P 6
C505	Ceramic 18p 50V	CCDSL 180J 50
C506	Mylar 0.1 50V	CQMA 104J 50
C507	Mylar 0.047 50V	CQMA 473J 50
C508	Ceramic 120p 50V	CCDSL 121K 50
C509	Ceramic 0.047 50V	ACG-009
C601	Electrolytic 1 50V	CEA 010P 50
C602	Mylar 0.1 50V	CQMA 104J 50
C603	Ceramic 120p 50V	CCDSL 121K 50
C604	Electrolytic 330 6V	CEA 331P 6
C605	Ceramic 18p 50V	CCDSL 180J 50
C606	Mylar 0.1 50V	CQMA 104J 50
C607	Mylar 0.047 50V	CQMA 473J 50
C608	Ceramic 120p 50V	CCDSL 121K 50
C609	Ceramic 0.047 50V	ACG-009
C701	Electrolytic 4700 35V	ACH-043
C702	Electrolytic 4700 35V	ACH-043
C703	Ceramic 0.01 150V	ACG-004
C704	Ceramic 0.01 150V	ACG-004
C705	Electrolytic 1000 50V	CEA 102P 50
C706	Electrolytic 470 35V	CEA 471P 35
C707	Ceramic 0.01 50V	CKDYB 103K 50
C708	Electrolytic 220 35V	CEA 221P 35

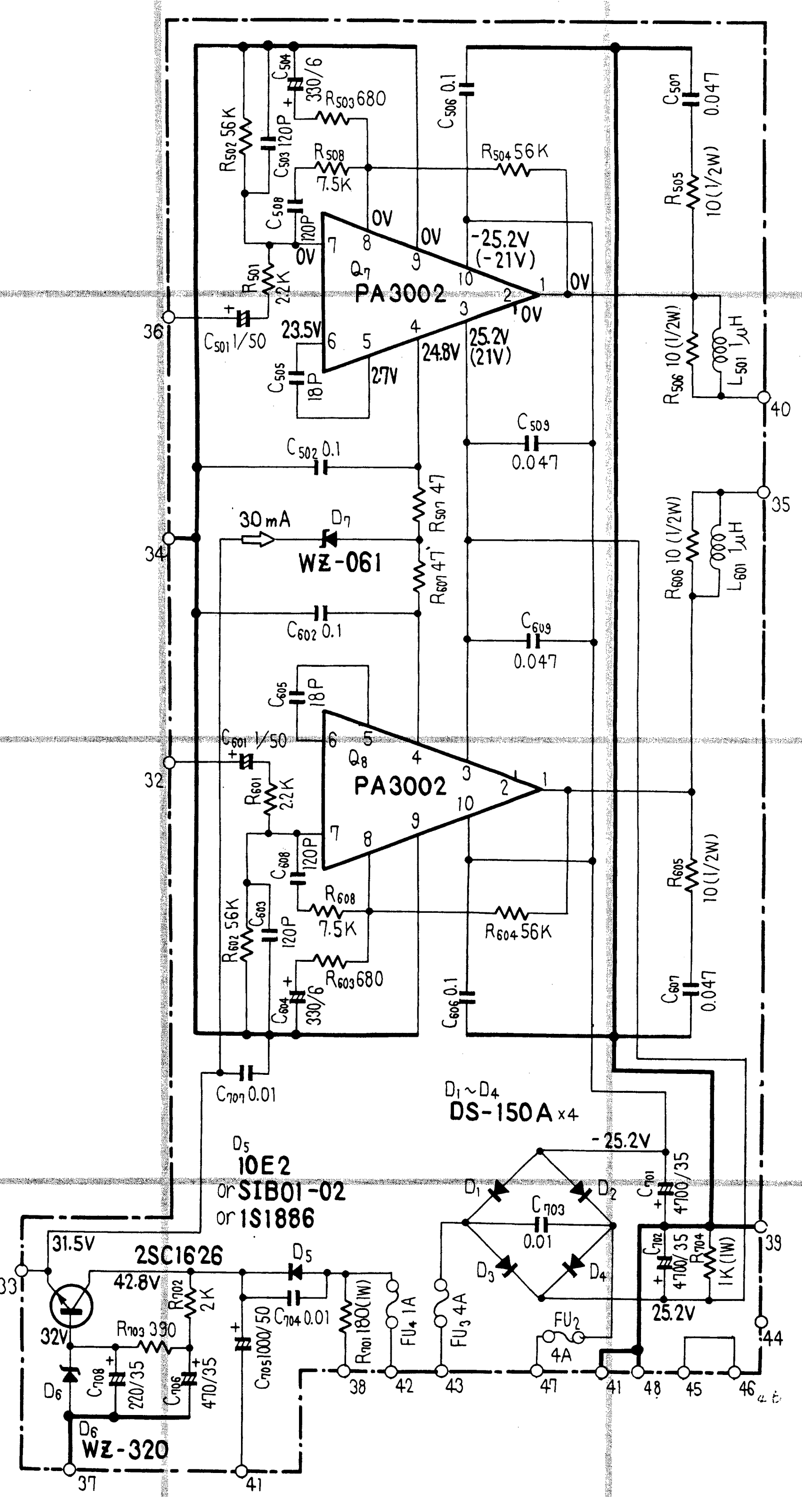
RESISTORS

Symbol	Description	Part No.
R501	Carbon film 2.2k	RD¼PS 222J
R502	Carbon film 56k	RD¼PS 563J
R503	Carbon film 680	RD¼PS 681J
R504	Carbon film 56k	RD¼PS 563J
R505	Carbon film 10 ½W	RD½PS 100J
R506	Carbon film 10 ½W	RD½PS 100J
R507	Carbon film 47	RD¼PS 470J
R508	Carbon film 7.5k	RD¼PM 752J
R601	Carbon film 2.2k	RD¼PS 222J
R602	Carbon film 56k	RD¼PS 563J
R603	Carbon film 680	RD¼PS 681J
R604	Carbon film 56k	RD¼PS 563J
R605	Carbon film 10 ½W	RD½PS 100J
R606	Carbon film 10 ½W	RD½PS 100J
R607	Carbon film 47	RD¼PS 470J
R608	Carbon film 7.5k	RD¼PM 752J
R701	Metal oxide 180 1W	RS1P 181J
R702	Carbon film 2k	RD¼PS 202J
R703	Carbon film 39	RD¼PS 390J
R704	Metal oxide 1k 1W	RS1P 102J

SEMICONDUCTORS

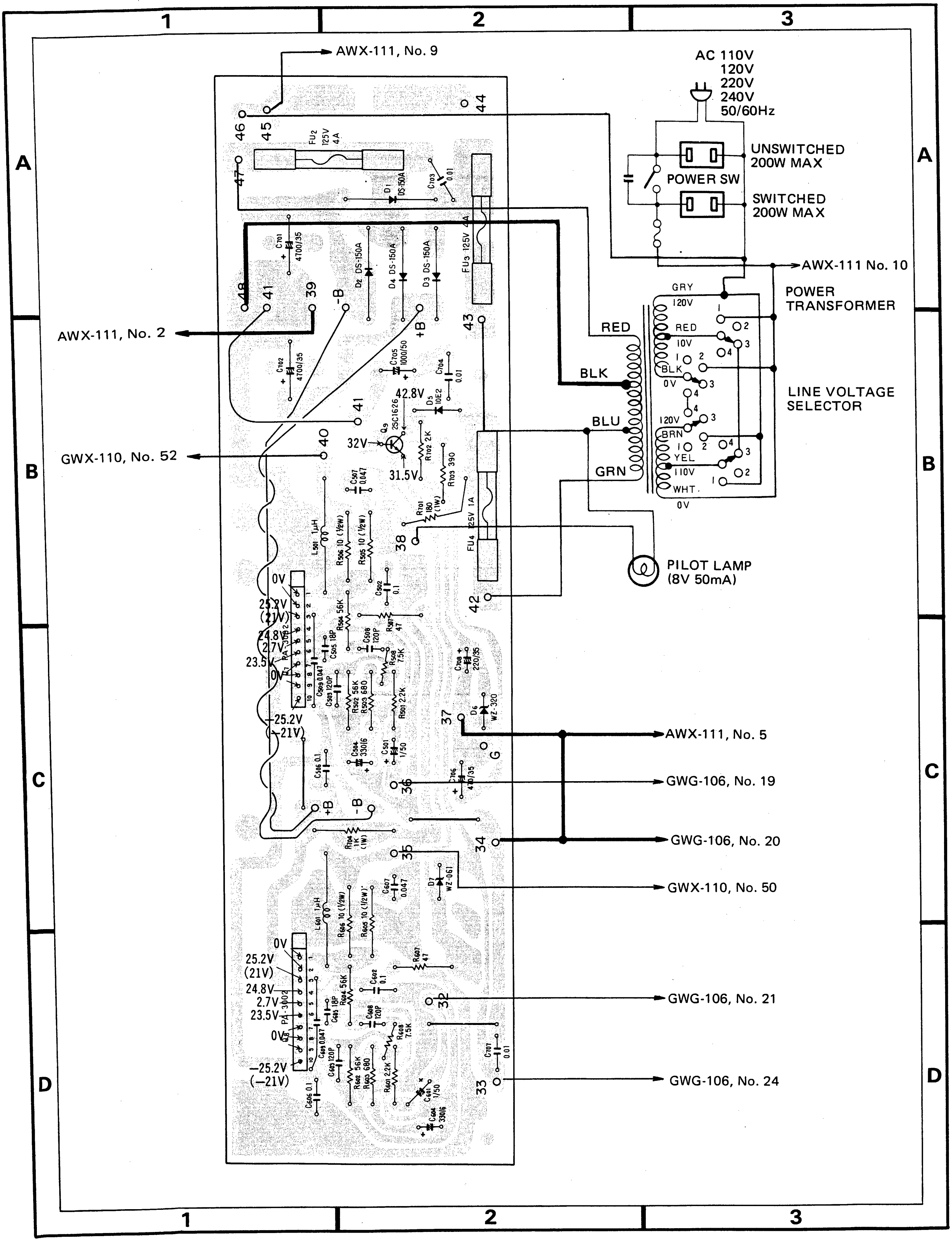
Symbol	Description	Part No.
Q7	IC	PA3002-A
Q8	IC	PA3002-A
Q9	Transistor	2SC1626-O or Y
D1	Diode	DS-150A
D2	Diode	DS-150A
D3	Diode	DS-150A
D4	Diode	DS-150A
D5	Diode	10E2 (1S1886 or SIB01-02)
D6	Zener diode	WZ-320
D7	Zener diode	WZ-061

Power Amplifier Assembly (GWH-106)

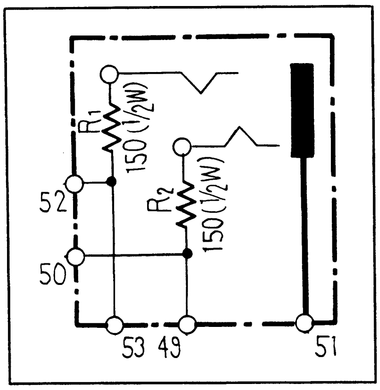


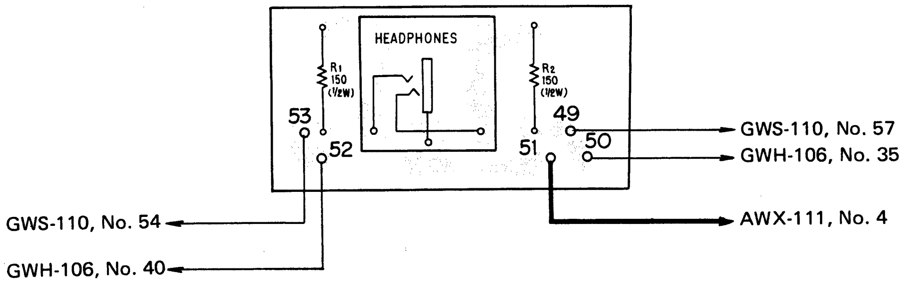
C504 330/6
R503 680
R502 56K
C503 120P
R508 7.5K
C508 120P
R504 56K
C506 0.1
C507 0.047
R505 10 (1/2W)
0V
-25.2V
(-21V)
Q7
PA3002
R501 2.2K
C501 1/50
23.5V
24.8V
25.2V
(21V)
27V
C505 18P
R506 10 (1/2W)
L501 1μH
C502 0.1
C503 0.047
R507 47
30mA
D7
WZ-061
R607 47
C602 0.1
C609 0.047
R606 10 (1/2W)
L601 1μH
C605 18P
C601 1/50
Q8
PA3002
R601 2.2K
C608 120P
R608 7.5K
R604 56K
R602 56K
C603 120P
R603 680
C604 330/6
C606 0.1
R605 10 (1/2W)
C607 0.047
C707 0.01
D1~D4
DS-150A ×4
D5
10E2
or SIB01-02
or 1S1886
-25.2V
C701 4700/35
D1
D2
D3
D4
C703 0.01
C702 4700/35
R704 1K (1W)
25.2V
31.5V
2SC1626
42.8V
32V
R702 2K
R703 390
C708 220/35
C706 470/35
C705 1000/50
C704 0.01
R701 180 (1W)
FU4 1A
FU3 4A
FU2 4A
D6
D6
WZ-320
36
34
32
33
37
41
38
42
43
47
41
48
45
46
44
39
40
35

1
2
3
A
B
C
D


1
2
3
A
B
C
D
AWX-111, No. 9
AC 110V
120V
220V
240V
50/60Hz
UNSWITCHED
200W MAX
POWER SW
SWITCHED
200W MAX
AWX-111 No. 10
POWER
TRANSFORMER
LINE VOLTAGE
SELECTOR
GRY
120V
RED
10V
BLK
0V
120V
BRN
YEL
110V
WHT
0V
RED
BLK
BLU
GRN
PILOT LAMP
(8V 50mA)
AWX-111, No. 2
GWX-110, No. 52
AWX-111, No. 5
GWG-106, No. 19
GWG-106, No. 20
GWX-110, No. 50
GWG-106, No. 21
GWG-106, No. 24
FU2 125V 4A
FU3 125V 4A
FU4 125V 1A
D1 DS-150A
D2 DS-150A
D4 DS-150A
D3 DS-150A
C703 0.01
C701 4700/35
C702 4700/35
C705 1000/50
C704 0.01
D5 10E2
Q9 2SC1626
42.8V
32V
31.5V
R702 2K
R703 390
R701 180 (1W)
C507 0.047
L501 1μH
R506 10 (1/2W)
R505 10 (1/2W)
C502 0.1
R504 56K
R507 47
C505 18P
C508 120P
R508 7.5K
C509 0.047
C503 120P
R502 56K
R503 680
R501 2.2K
C708 220/35
D6 WZ-320
C504 330/16
C501 1/50
C506 0.1
C706 470/35
R704 1K (1W)
C607 0.047
D7 WZ-061
L601 1μH
R606 10 (1/2W)
R605 10 (1/2W)
R607 47
C602 0.1
R604 56K
C605 18P
C608 120P
R608 7.5K
C609 0.047
C603 120P
R602 56K
R603 680
R601 2.2K
C601 1/50
C604 330/16
C606 0.1
C707 0.01
PA-3002
0V
25.2V
(21V)
24.8V
2.7V
23.5V
0V
−25.2V
(−21V)
+B
−B
G
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48

5.5 HEADPHONES ASSEMBLY (GWX-110)

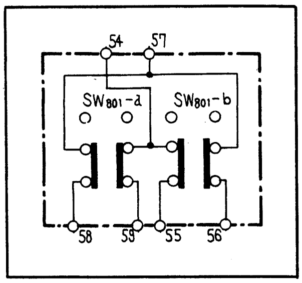

R1
150(1/2W)
R2
150(1/2W)
52
50
53
49
51

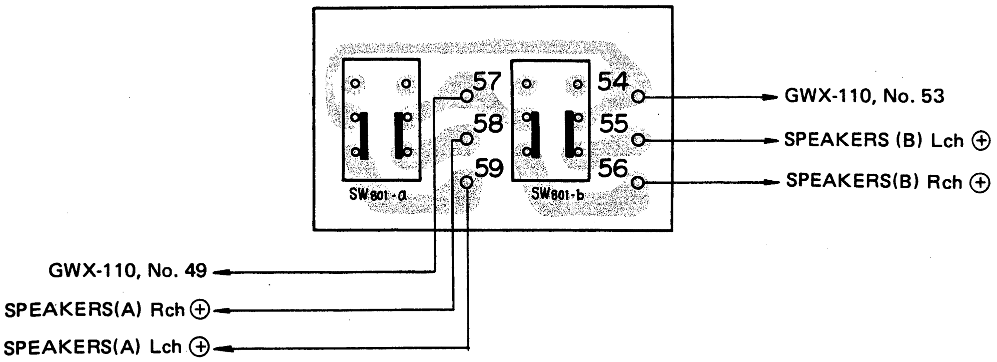

HEADPHONES
R1 150 (1/2W)
R2 150 (1/2W)
53
52
49
50
51
GWS-110, No. 57
GWH-106, No. 35
AWX-111, No. 4
GWS-110, No. 54
GWH-106, No. 40

Part List

Symbol	Description			Part No.
	Phone jack (A)			AKN-009
R1	Carbon film	150	½W	RD½PS 151J
R2	Carbon film	150	½W	RD½PS 151J

5.6 SPEAKER SELECTOR ASSEMBLY (GWS-110)


54
57
SW801-a
SW801-b
58
59
55
56

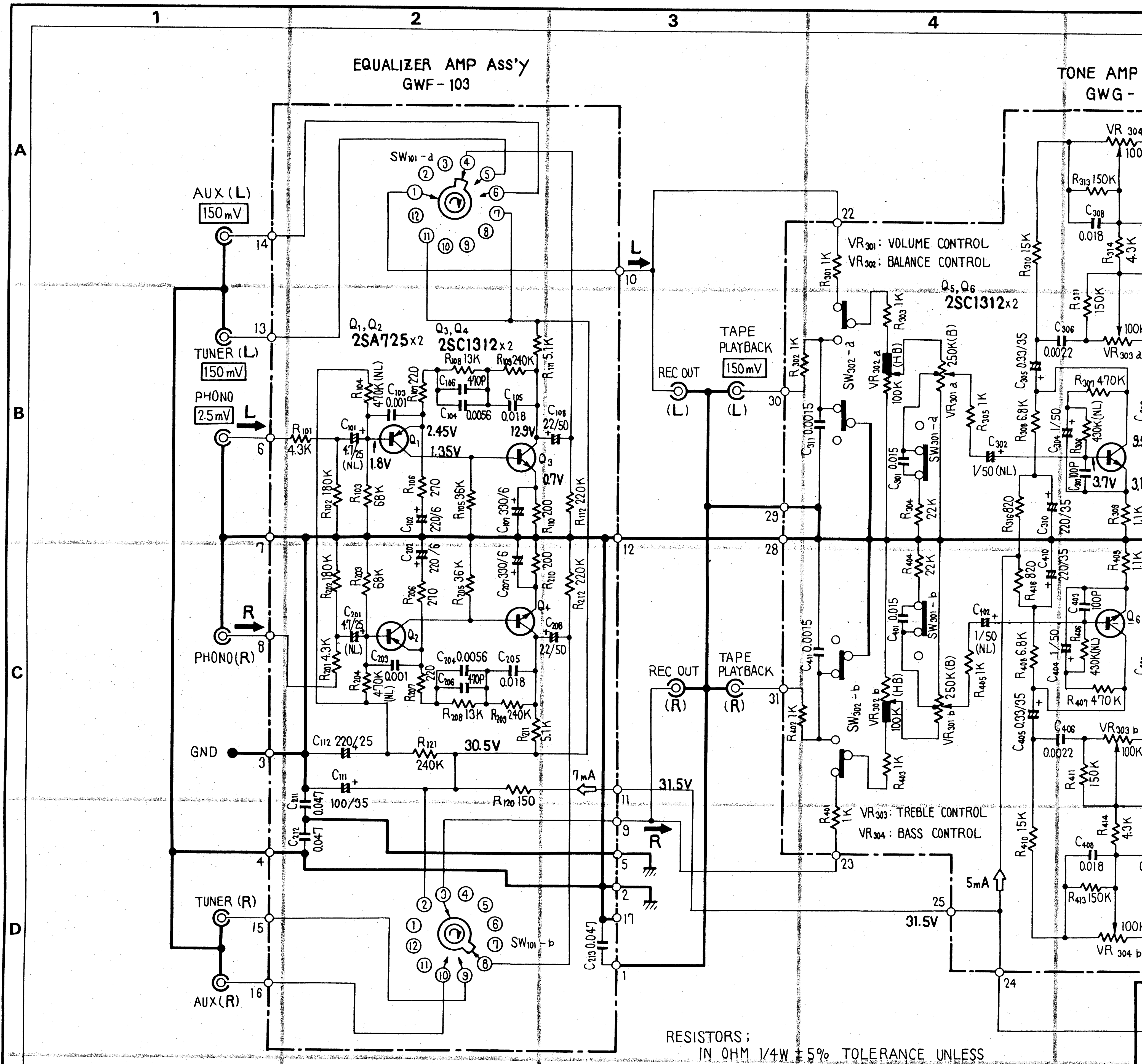

57
58
59
54
55
56
SW801-a
SW801-b
GWX-110, No. 53
SPEAKERS (B) Lch ⊕
SPEAKERS(B) Rch ⊕
GWX-110, No. 49
SPEAKERS(A) Rch ⊕
SPEAKERS(A) Lch ⊕

Part List

Symbol	Description	Part No.
SW801	Push switch (SPEAKERS)	ASG-117

STEREO AMPLIFIER

SA-5500II KU



1
2
3
4
A
B
C
D
E
EQUALIZER AMP ASS'Y
GWF-103
TONE AMP
GWG-
SW101-a
SW101-b
AUX (L)
150mV
TUNER (L)
150mV
PHONO
2.5mV
L
R
PHONO (R)
GND
TUNER (R)
AUX (R)
Q1, Q2
2SA725×2
Q3, Q4
2SC1312×2
Q5, Q6
2SC1312×2
R101 4.3K
R102 180K
R103 68K
R104 470K (NL)
C101 4.7/25 (NL)
C103 0.001
R107 220
R108 13K
R109 240K
R111 5.1K
C106 470P
C104 0.0056
C105 0.018
C108 22/50
2.45V
1.8V
1.35V
12.9V
0.7V
R106 270
C102 220/6
R105 36K
C107 330/6
R110 200
R112 220K
C112 220/25
R121 240K
30.5V
C111 100/35
R120 150
7mA
31.5V
C211 0.047
C212 0.047
C213 0.047
REC OUT (L)
TAPE PLAYBACK (L)
150mV
REC OUT (R)
TAPE PLAYBACK (R)
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
VR303: TREBLE CONTROL
VR304: BASS CONTROL
SW302-a
SW302-b
SW301-a
SW301-b
VR302 a 100K (HB)
VR301 a 250K (B)
VR302 b 100K (HB)
VR301 b 250K (B)
R301 1K
R302 1K
R303 1K
R304 22K
R305 1K
C311 0.0015
C301 0.015
C302 1/50 (NL)
R401 1K
R402 1K
R403 1K
R404 22K
R405 1K
C411 0.0015
C401 0.015
C402 1/50 (NL)
VR 304 100K
R313 150K
C308 0.018
R310 15K
R314 4.3K
R311 150K
C306 0.0022
VR303 a
C305 0.33/35
R308 6.8K
C304 1/50
R306 430K (NL)
R307 470K
C303 100P
3.7V
R316 820
C310 220/35
R309 1.1K
R416 820
C410 220/35
R409 1.1K
C403 100P
R406 430K (NL)
C404 1/50
R408 6.8K
R407 470K
C405 0.33/35
C406 0.0022
VR303 b 100K
R411 150K
R410 15K
R414 4.3K
C408 0.018
R413 150K
VR 304 b 100K
5mA
31.5V
22
10
30
29
28
31
23
25
24
14
13
6
7
8
3
4
15
16
12
11
9
5
2
17
1

RESISTORS;
IN OHM 1/4W ±5% TOLERANCE UNLESS OTHERWISE NOTED K : kΩ M : MΩ

CAPACITORS;
IN μF UNLESS OTHERWISE NOTED P : pF

NOTES
- mV : SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
- V : DC VOLTAGE AT NO INPUT SIGNAL
- (V) : DC VOLTAGE AT MAX POWER OUTPUT
- mA : DC CURRENT AT NO INPUT SIGNAL

SWITCHES;

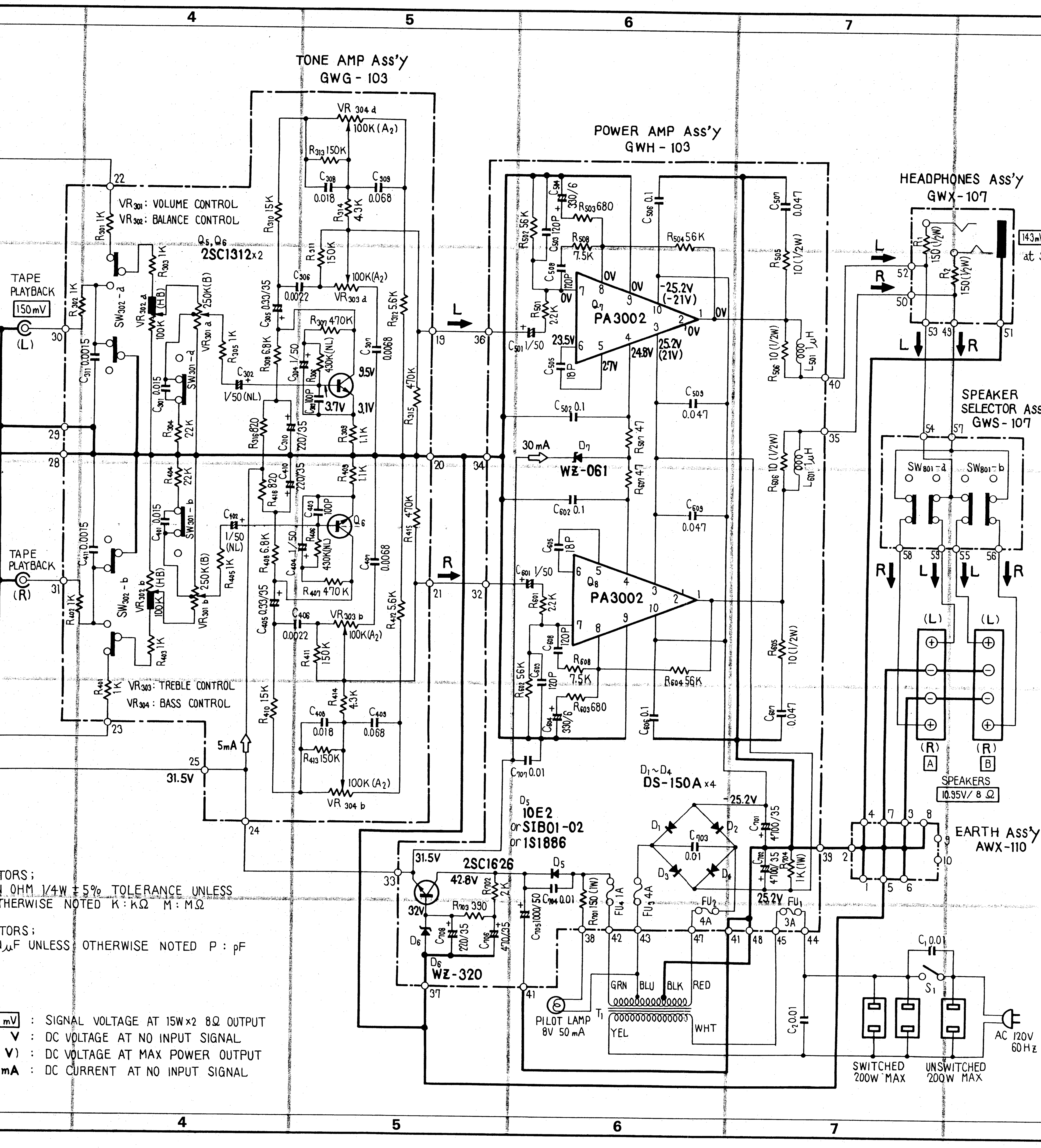
S_1 : POWER
ON — OFF

SW_{101} : FUNCTION
1. PHONO
2. TUNER
3. AUX

SW_{301} : LOUDNESS
ON — OFF

SW_{302} : TAPE MONITOR
ON — OFF

SW_{801} : SPEAKER
a. ON — OFF
b. ON — OFF

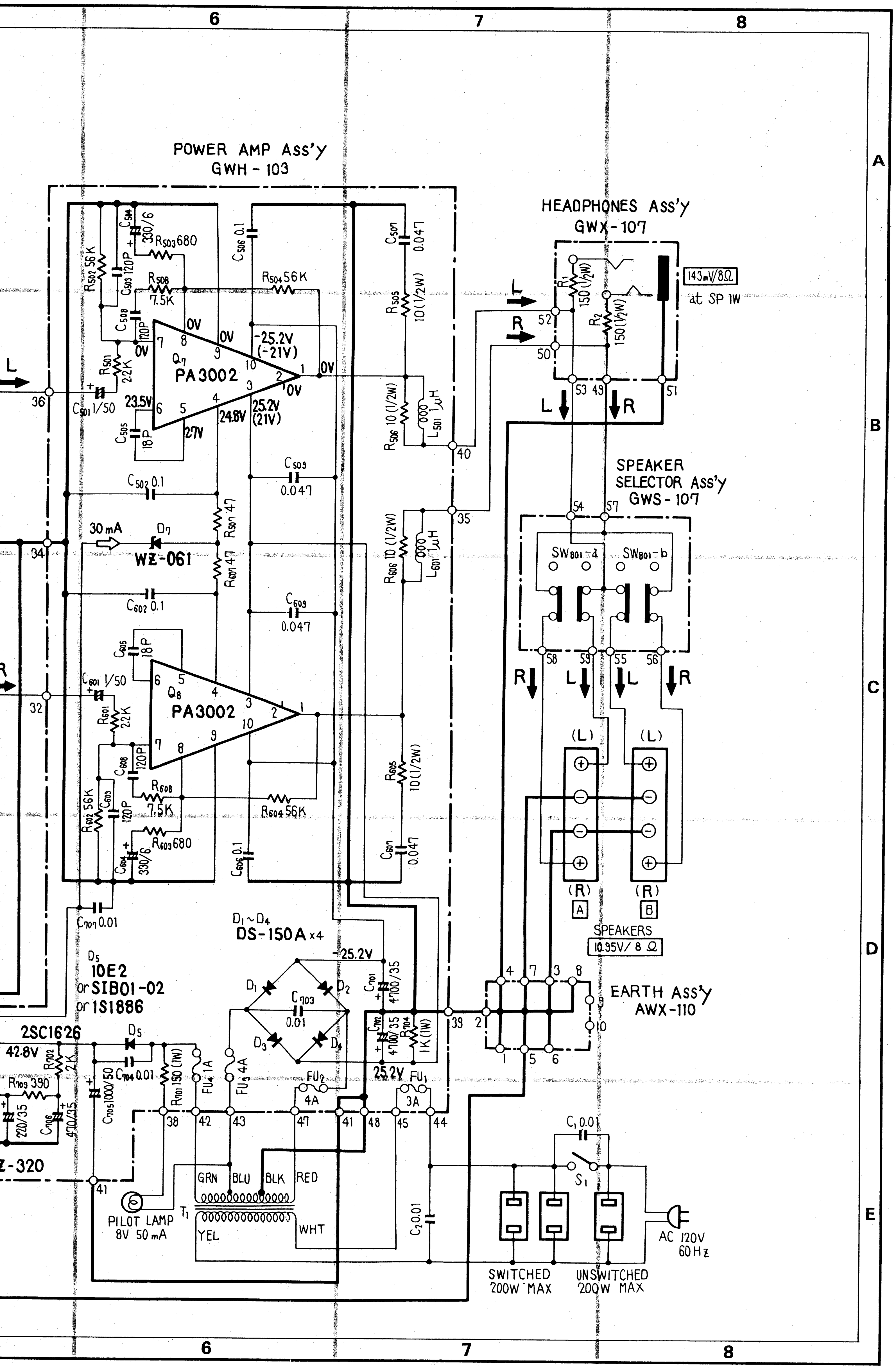

4
5
6
7
TONE AMP Ass'y
GWG - 103
POWER AMP Ass'y
GWH - 103
HEADPHONES Ass'y
GWX - 107
SPEAKER SELECTOR Ass
GWS - 107
EARTH Ass'y
AWX-110
VR301 : VOLUME CONTROL
VR302 : BALANCE CONTROL
VR303 : TREBLE CONTROL
VR304 : BASS CONTROL
Q5, Q6
2SC1312×2
TAPE PLAYBACK
150mV
(L)
TAPE PLAYBACK
(R)
VR 304 a 100K(A2)
R313 150K
C308 0.018
C309 0.068
R314 4.3K
R311 150K
C306 0.0022
VR303 a 100K(A2)
R310 15K
R301 1K
R302 1K
R303 1K
SW302 - a
VR302 a 100K (HB)
VR301 a 250K(B)
R305 1K
C305 0.033/35
R312 5.6K
C311 0.0015
C301 0.015
SW301 - a
R304 22K
C302 1/50 (NL)
R306 6.8K
C304 1/50
R307 470K
R308 430K(NL)
C303 100P
C307 0.0068
9.5V
3.7V
3.1V
R309 1.1K
R315 470K
R316 820
C310 220/35
C410 220/35
R416 820
R404 22K
R409 1.1K
C403 100P
Q6
C402 1/50 (NL)
C401 0.015
SW301 - b
C411 0.0015
R405 1K
R406 6.8K
C404 1/50
R408 430K(NL)
R407 470K
C407 0.0068
R415 470K
SW302 - b
VR302 b 100K (HB)
VR301 b 250K(B)
C405 0.033/35
C406 0.0022
VR303 b 100K(A2)
R412 5.6K
R411 150K
R402 1K
R403 1K
R401 1K
R414 4.3K
R410 15K
C408 0.018
C409 0.068
R413 150K
100K (A2)
VR 304 b
5mA
31.5V
22
23
24
25
28
29
30
31
19
20
21
L
R
36
34
32
C501 1/50
C504 330/6
R503 680
C503 120P
R502 56K
R508 7.5K
C508 120P
R501 22K
0V
Q7
PA3002
23.5V
24.8V
25.2V (21V)
-25.2V (-21V)
27V
C505 18P
C506 0.1
R504 56K
C507 0.047
R505 10 (1/2W)
R506 10 (1/2W)
L501 1μH
C502 0.1
C509 0.047
R507 47
30 mA
D7
WZ-061
R607 47
C602 0.1
R606 10 (1/2W)
L601 1μH
C609 0.047
C605 18P
C601 1/50
Q8
PA3002
R601 22K
C608 120P
R608 7.5K
R602 56K
C603 120P
R604 56K
R605 10 (1/2W)
C604 330/6
R603 680
C606 0.1
C607 0.047
C707 0.01
D1 ~ D4
DS-150A ×4
-25.2V
C701 4700/35
C703 0.01
D1
D2
D3
D4
C702 4700/35
R704 1K (1W)
25.2V
FU1 3A
FU2 4A
FU3 4A
FU4 1A
D5
10E2
or SIB01-02
or 1S1886
31.5V
2SC1626
42.8V
32V
R703 390
R702 2K
C704 0.01
C705 1000/50
R701 150 (1W)
D6
C708 220/35
C706 470/35
D6
WZ-320
33
37
38
39
40
35
41
42
43
44
45
47
48
PILOT LAMP
8V 50mA
T1
GRN
BLU
BLK
RED
YEL
WHT
C2 0.01
C1 0.01
S1
SWITCHED 200W MAX
UNSWITCHED 200W MAX
AC 120V 60Hz
R1 150 (1/2W)
R2 150 (1/2W)
143m
at
52
50
53
49
51
54
57
SW801 - a
SW801 - b
58
59
55
56
(L)
(R)
A
B
SPEAKERS
10.95V/ 8 Ω
4
7
3
8
9
10
2
1
5
6

TORS;
OHM 1/4W ±5% TOLERANCE UNLESS
THERWISE NOTED K : kΩ M : MΩ

TORS;
μF UNLESS OTHERWISE NOTED P : pF

mV : SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
V : DC VOLTAGE AT NO INPUT SIGNAL
V) : DC VOLTAGE AT MAX POWER OUTPUT
mA : DC CURRENT AT NO INPUT SIGNAL

PIONEER



6
7
8
A
B
C
D
E
POWER AMP Ass'y
GWH - 103
HEADPHONES Ass'y
GWX - 107
143mV/8Ω
at SP 1W
SPEAKER SELECTOR Ass'y
GWS - 107
SW801-a
SW801-b
EARTH Ass'y
AWX-110
Q7
PA3002
Q8
PA3002
D7
WZ-061
30mA
D1~D4
DS-150A x4
D5
10E2
or SIB01-02
or 1S1886
2SC1626
42.8V
-25.2V
(-21V)
25.2V
(21V)
23.5V
24.8V
27V
0V
-25.2V
25.2V
C501 1/50
R501 2.2K
R502 56K
C503 120P
C504 330/6
R503 680
R508 7.5K
C508 120P
R504 56K
C505 18P
C506 0.1
C507 0.047
R505 10 (1/2W)
R506 10 (1/2W)
L501 1μH
C502 0.1
R507 47
R607 47
C509 0.047
C602 0.1
C609 0.047
C605 18P
C601 1/50
R601 2.2K
C608 120P
R608 7.5K
R602 56K
C603 120P
R603 680
C604 330/6
R604 56K
C606 0.1
C607 0.047
R605 10 (1/2W)
R606 10 (1/2W)
L601 1μH
C707 0.01
C701 4700/35
C702 4700/35
C703 0.01
R704 1K (1W)
R702 2K
R703 390
C706 470/35
220/35
C705 1000/50
C704 0.01
R701 150 (1W)
FU4 1A
FU3 4A
FU2 4A
FU1 3A
R1 150 (1/2W)
R2 150 (1/2W)
L
R
(L)
(R)
A
B
SPEAKERS
10.95V/ 8 Ω
C1 0.01
S1
C2 0.01
GRN
BLU
BLK
RED
YEL
WHT
T1
PILOT LAMP
8V 50mA
Z-320
AC 120V
60Hz
SWITCHED
200W MAX
UNSWITCHED
200W MAX
1
2
3
4
5
6
7
8
9
10
32
34
35
36
38
39
40
41
42
43
44
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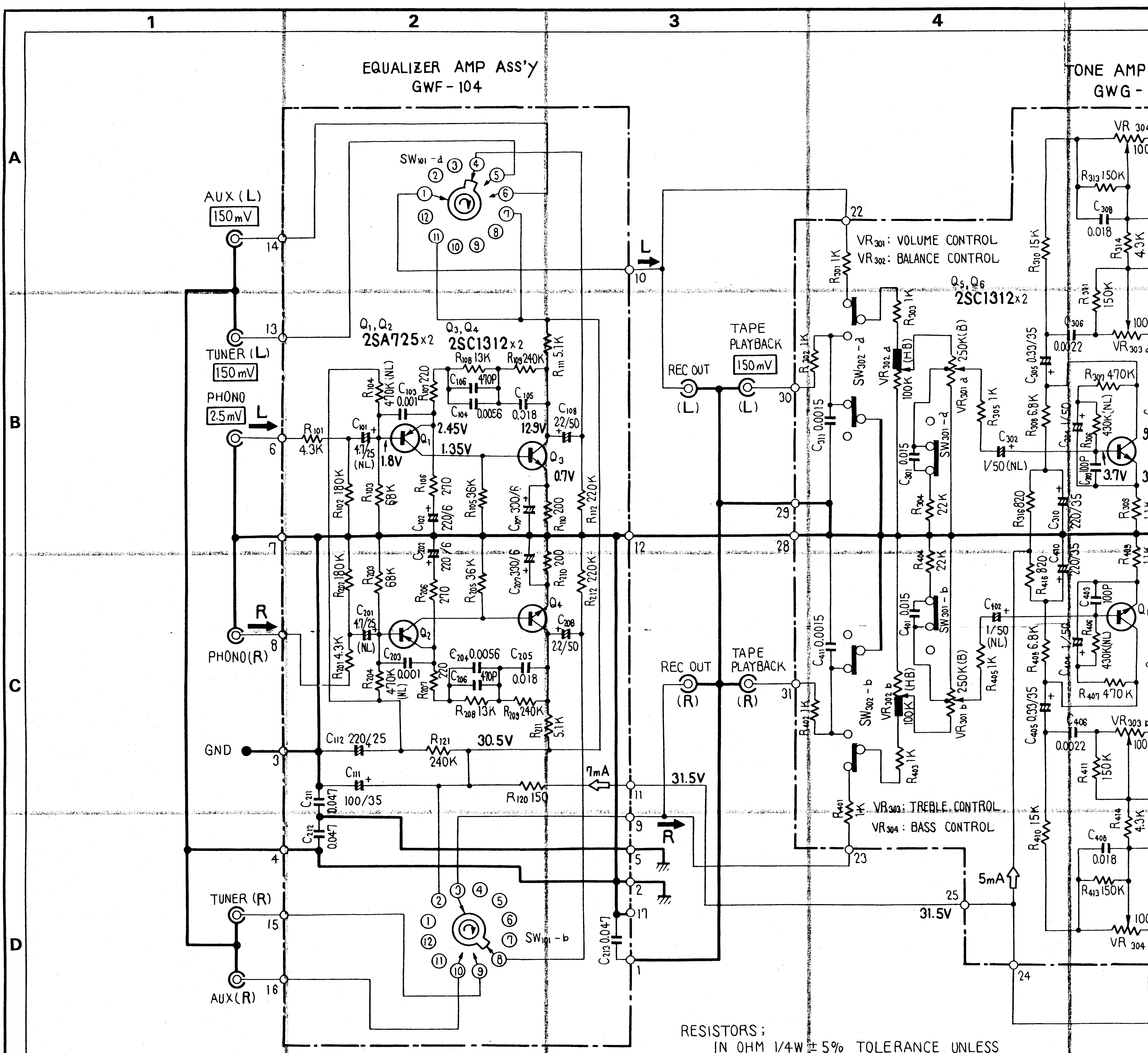
53
54
55
56
57
58
59

STEREO AMPLIFIER

SA-5500II KC


1
2
3
4
A
B
C
D
E
EQUALIZER AMP ASS'Y
GWF-104
TONE AMP
GWG-
AUX (L)
150mV
TUNER (L)
150mV
PHONO
2.5mV
L
PHONO (R)
R
GND
TUNER (R)
AUX (R)
SW101-a
SW101-b
Q1, Q2
2SA725×2
Q3, Q4
2SC1312×2
Q5, Q6
2SC1312×2
R101 4.3K
R102 180K
R103 68K
R104 470K (NL)
R105 36K
R106 270
R107 220
R108 13K
R109 240K
R110 200
R111 5.1K
R112 220K
C101 4.7/25 (NL)
C102 220/6
C103 0.001
C104 0.0056
C105 0.018
C106 470P
C107 330/6
C108 22/50
R201 4.3K
R202 180K
R203 68K
R204 470K (NL)
R205 36K
R206 270
R207 220
R208 13K
R209 240K
R210 200
R211 5.1K
R212 220K
C201 4.7/25 (NL)
C202 220/6
C203 0.001
C204 0.0056
C205 0.018
C206 470P
C207 330/6
C208 22/50
2.45V
1.8V
1.35V
12.9V
0.7V
C112 220/25
R121 240K
30.5V
C111 100/35
R120 150
7mA
C211 0.047
C212 0.047
C213 0.047
31.5V
REC OUT (L)
TAPE PLAYBACK (L)
150mV
REC OUT (R)
TAPE PLAYBACK (R)
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
VR303: TREBLE CONTROL
VR304: BASS CONTROL
R301 1K
R302 1K
R303 1K
R304 22K
R305 1K
R306 430K (NL)
R307 470K
R308 6.8K
R309
R310 15K
R311 150K
R313 150K
R314 4.3K
R316 820
R401 1K
R402 1K
R403 1K
R404 22K
R405 1K
R406 430K (NL)
R407 470K
R408
R410 15K
R411 150K
R413 150K
R414 4.3K
R416 820
SW302-a
SW302-b
SW301-a
SW301-b
VR302 a 100K (HB)
VR302 b 100K (HB)
VR301 a 250K (B)
VR301 b 250K (B)
C311 0.0015
C301 0.015
C302 1/50 (NL)
C304 1/50
C305 0.033/35
C306 0.0022
C307 100P
C308 0.018
C310 220/35
C401 0.015
C402 1/50 (NL)
C404 1/50
C405 0.033/35
C406 0.0022
C407 100P
C408 0.018
C410 220/35
C411 0.0015
3.7V
VR 304
VR 303
100
5mA
31.5V
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
22
23
24
25
28
29
30
31

RESISTORS;
IN OHM 1/4W ±5% TOLERANCE UNLESS OTHERWISE NOTED K: kΩ M: MΩ

CAPACITORS;
IN μF UNLESS OTHERWISE NOTED P: pF

SWITCHES;
S1 POWER
ON — OFF

SW101: FUNCTION
1. PHONO
2. TUNER
3. AUX

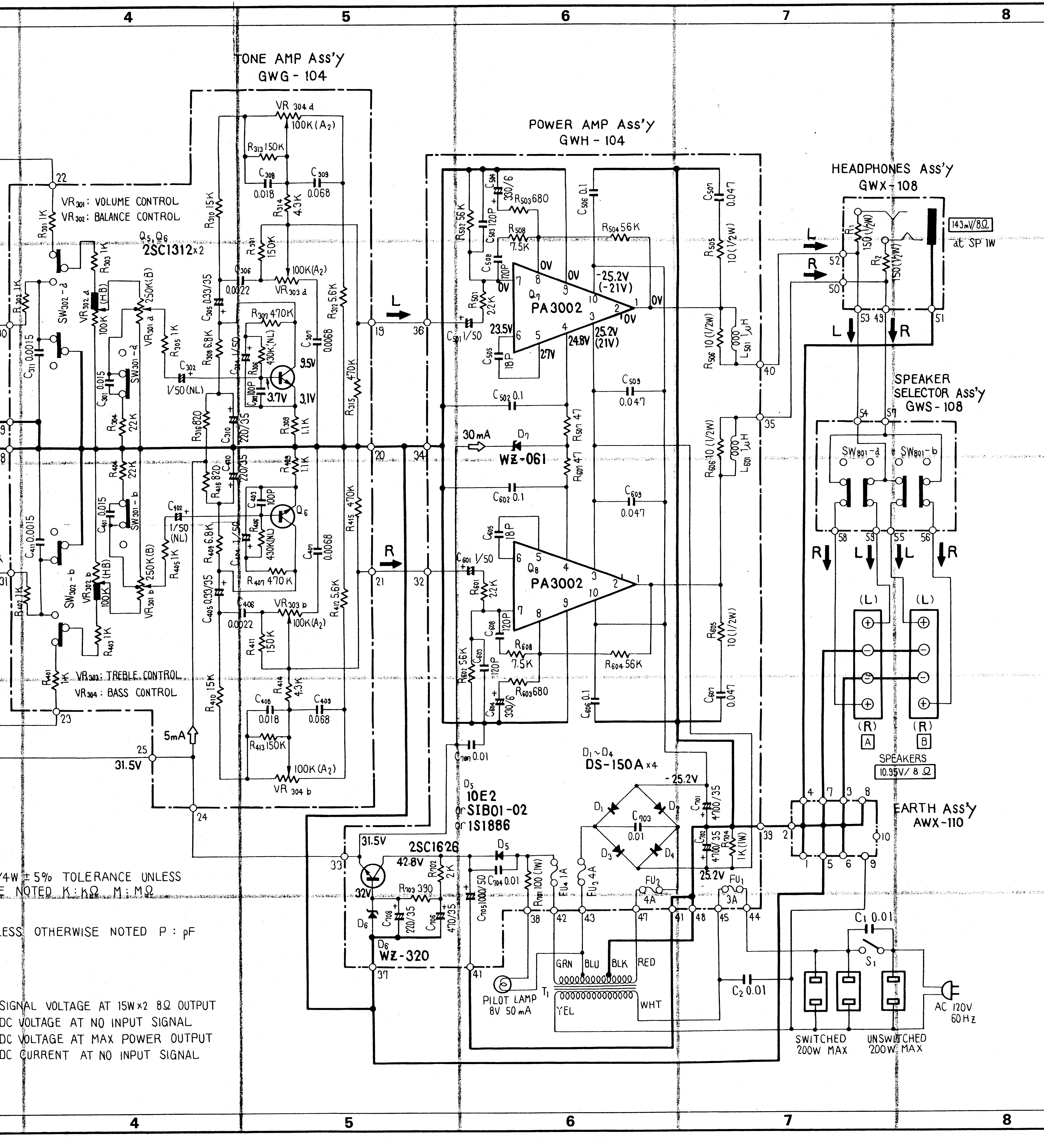
SW301: LOUDNESS
ON — OFF

SW302: TAPE MONITOR
ON — OFF

SW801: SPEAKER
a. ON — OFF
b. ON — OFF

NOTES

mV : SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
V : DC VOLTAGE AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT MAX POWER OUTPUT
mA : DC CURRENT AT NO INPUT SIGNAL


4
5
6
7
8
TONE AMP Ass'y
GWG - 104
POWER AMP Ass'y
GWH - 104
HEADPHONES Ass'y
GWX-108
SPEAKER SELECTOR Ass'y
GWS-108
EARTH Ass'y
AWX-110
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
VR303: TREBLE CONTROL
VR304: BASS CONTROL
Q5, Q6
2SC1312×2
VR 304 a 100K(A2)
VR 303 a 100K(A2)
VR 303 b 100K(A2)
VR 304 b 100K(A2)
Q7 PA3002
Q8 PA3002
D7 WZ-061
30mA
5mA
31.5V
D1 ~ D4
DS-150A ×4
D5
10E2
or SIB01-02
or 1S1886
2SC1626
D6 WZ-320
-25.2V
25.2V
42.8V
32V
FU1 3A
FU2 4A
FU3 4A
FU4 1A
PILOT LAMP
8V 50mA
T1
GRN
BLU
BLK
RED
YEL
WHT
C1 0.01
C2 0.01
S1
AC 120V
60Hz
SWITCHED
200W MAX
UNSWITCHED
200W MAX
143mV/8Ω
at SP 1W
SPEAKERS
10.95V/ 8 Ω
SW801-a
SW801-b
(L)
(R)
A
B
L
R

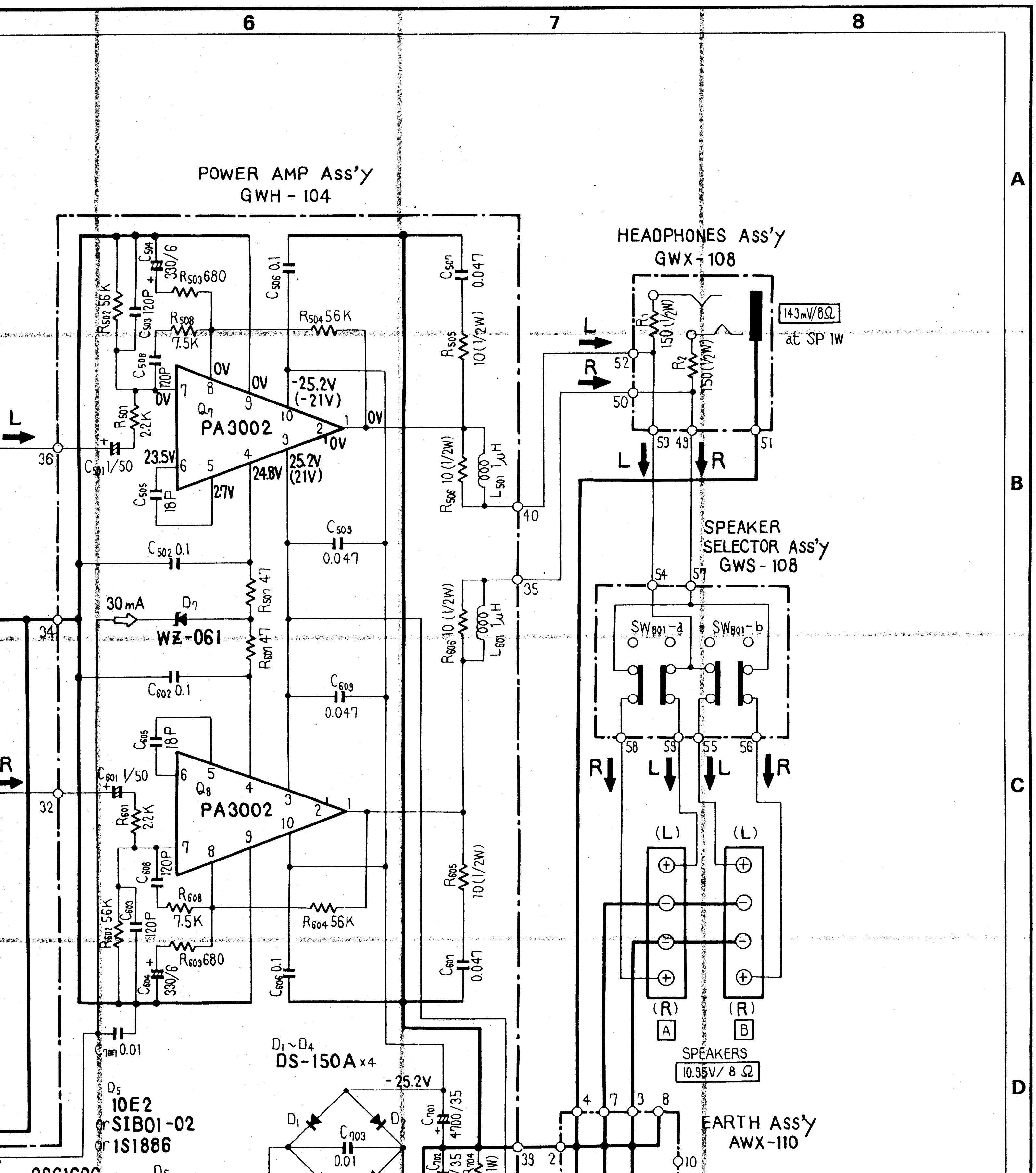
/4W ± 5% TOLERANCE UNLESS
E NOTED K : kΩ M : MΩ

LESS OTHERWISE NOTED P : pF

SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
DC VOLTAGE AT NO INPUT SIGNAL
DC VOLTAGE AT MAX POWER OUTPUT
DC CURRENT AT NO INPUT SIGNAL

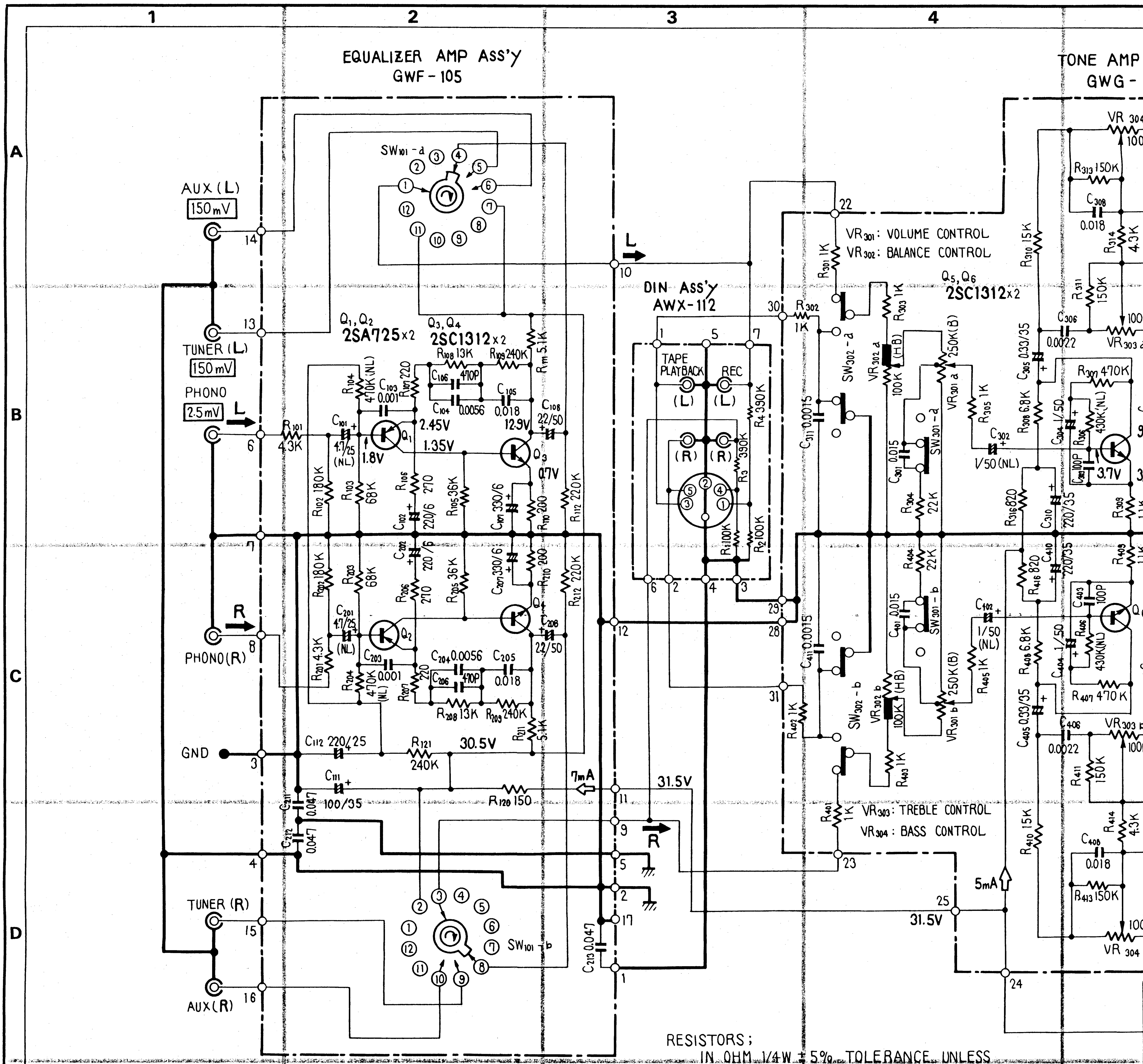
ΩPIO

PIONEER


6
7
8
A
B
C
D
E
POWER AMP Ass'y
GWH-104
HEADPHONES Ass'y
GWX-108
143mV/8Ω
at SP 1W
SPEAKER SELECTOR Ass'y
GWS-108
SW801-a
SW801-b
EARTH Ass'y
AWX-110
PA3002
Q7
Q8
PA3002
R502 56K
C504 330/6
R503 680
C503 120P
R508 7.5K
C508 120P
R501 2.2K
C501 1/50
C505 18P
C506 0.1
R504 56K
C507 0.047
R505 10(1/2W)
R506 10(1/2W)
L501 1μH
C502 0.1
C503 0.047
30mA
D7
WZ-061
R507 47
R607 47
C602 0.1
C609 0.047
C605 18P
C601 1/50
R601 2.2K
C608 120P
R608 7.5K
R602 56K
C603 120P
R603 680
C604 330/6
R604 56K
C606 0.1
R605 10(1/2W)
C607 0.047
R606 10(1/2W)
L601 1μH
0V
-25.2V
(-21V)
23.5V
24.8V
25.2V
(21V)
27V
L
R
36
34
32
40
35
R1 150(1/2W)
R2 150(1/2W)
52
50
53
49
51
54
57
58
59
55
56
(L)
(R)
A
B
SPEAKERS
10.95V/8Ω
C700 0.01
D1~D4
DS-150A x4
-25.2V
D1
D2
D3
D4
C703 0.01
C701 4700/35
C702 4700/35
R704 1K(1W)
25.2V
D5
10E2
or SIB01-02
or 1S1886
2SC1626
42.8V
R702 2K
R703 390
C708 220/35
C706 470/35
Z-320
C704 0.01
C705 1000/50
R701 100(1W)
FU4 1A
FU3 4A
FU2 4A
FU1 3A
38
42
43
47
41
48
45
44
39
2
4
7
3
8
10
1
5
6
9
41
PILOT LAMP
8V 50mA
T1
GRN
BLU
BLK
RED
YEL
WHT
C1 0.01
S1
C2 0.01
AC 120V
60Hz
SWITCHED
200W MAX
UNSWITCHED
200W MAX

STEREO AMPLIFIER

SA-5500II HG


1
2
3
4
A
B
C
D
E
EQUALIZER AMP ASS'Y
GWF-105
TONE AMP
GWG-
AUX (L)
150mV
TUNER (L)
150mV
PHONO
2.5mV
L
R
PHONO (R)
GND
TUNER (R)
AUX (R)
SW101-a
SW101-b
Q1, Q2
2SA725×2
Q3, Q4
2SC1312×2
DIN Ass'y
AWX-112
TAPE PLAYBACK (L)
REC (L)
(R)
(R)
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
VR303: TREBLE CONTROL
VR304: BASS CONTROL
Q5, Q6
2SC1312×2
SW302-a
SW302-b
SW301-a
SW301-b
2.45V
1.8V
1.35V
12.9V
0.7V
30.5V
31.5V
7mA
5mA
3.7V
R101 4.3K
R102 180K
R103 68K
R104 470K (NL)
R105 36K
R106 270
R107 220
R108 13K
R109 240K
R110 200
R111 5.1K
R112 220K
R120 150
R121 240K
C101 4.7/25 (NL)
C102 220/6
C103 0.001
C104 0.0056
C105 0.018
C106 470P
C107 330/6
C108 22/50
C111 100/35
C112 220/25
C211 0.047
C212 0.047
C213 0.047
R201 4.3K
R202 180K
R203 68K
R204 470K (NL)
R205 36K
R206 270
R207 220
R208 13K
R209 240K
R210 200
R211 5.1K
R212 220K
C201 4.7/25 (NL)
C202 220/6
C203 0.001
C204 0.0056
C205 0.018
C206 470P
C207 330/6
C208 22/50
R3 390K
R4 390K
R1 100K
R2 100K
R301 1K
R302 1K
R303 1K
R304 22K
R305 1K
R306 6.8K
R307 470K
R309
R310 15K
R311 150K
R313 150K
R314 4.3K
R316 820
C301 0.015
C302 1/50 (NL)
C304 1/50
C305 0.33/35
C306 0.0022
C308 0.018
C310 220/35
C311 0.0015
VR301-a 250K(B)
VR302-a 100K (HB)
VR303
VR304
R401 1K
R402 1K
R403 1K
R404 22K
R405 1K
R406 430K (NL)
R407 470K
R408 6.8K
R409
R410 15K
R411 150K
R413 150K
R414 4.3K
R416 820
C401 0.015
C402 1/50 (NL)
C403 100P
C404 1/50
C405 0.33/35
C406 0.0022
C408 0.018
C410 220/35
C411 0.0015
VR301-b 250K(B)
VR302-b 100K (HB)
100P
430K (NL)

RESISTORS;
IN OHM 1/4W ±5% TOLERANCE UNLESS OTHERWISE NOTED K: kΩ M: MΩ

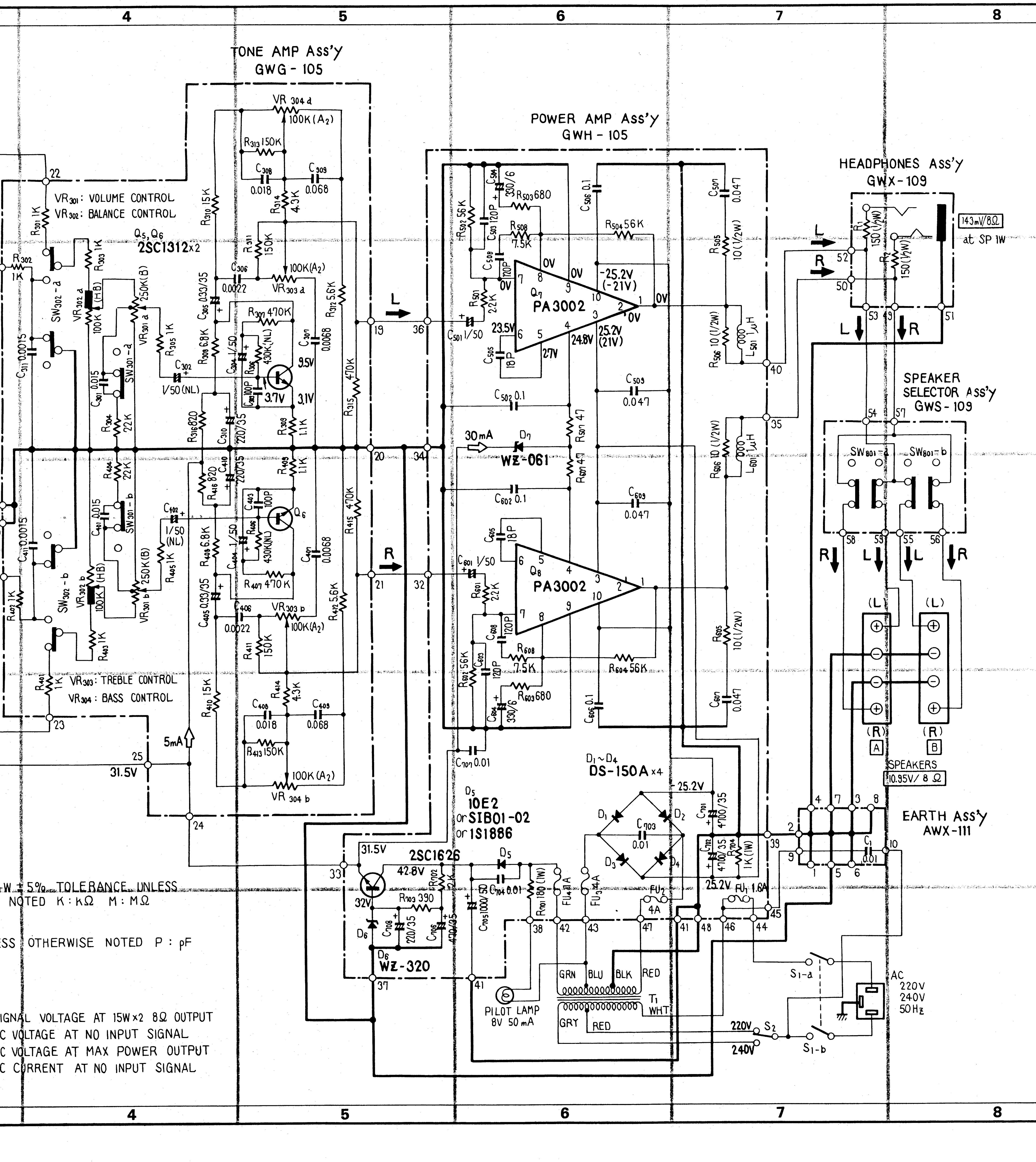
CAPACITORS;
IN μF UNLESS OTHERWISE NOTED P: pF

NOTES

mV : SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
V : DC VOLTAGE AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT MAX POWER OUTPUT
mA : DC CURRENT AT NO INPUT SIGNAL

SWITCHES;
S_1 : POWER
ON — OFF
S_2 : LINE VOLTAGE SELECTOR
220V — 240V
SW_{101} : FUNCTION
1. PHONO
2. TUNER
3. AUX

SW_{301} : LOUDNESS
ON — OFF
SW_{302} : TAPE MONITOR
ON — OFF
SW_{801} : SPEAKER
a. ON — OFF
b. ON — OFF

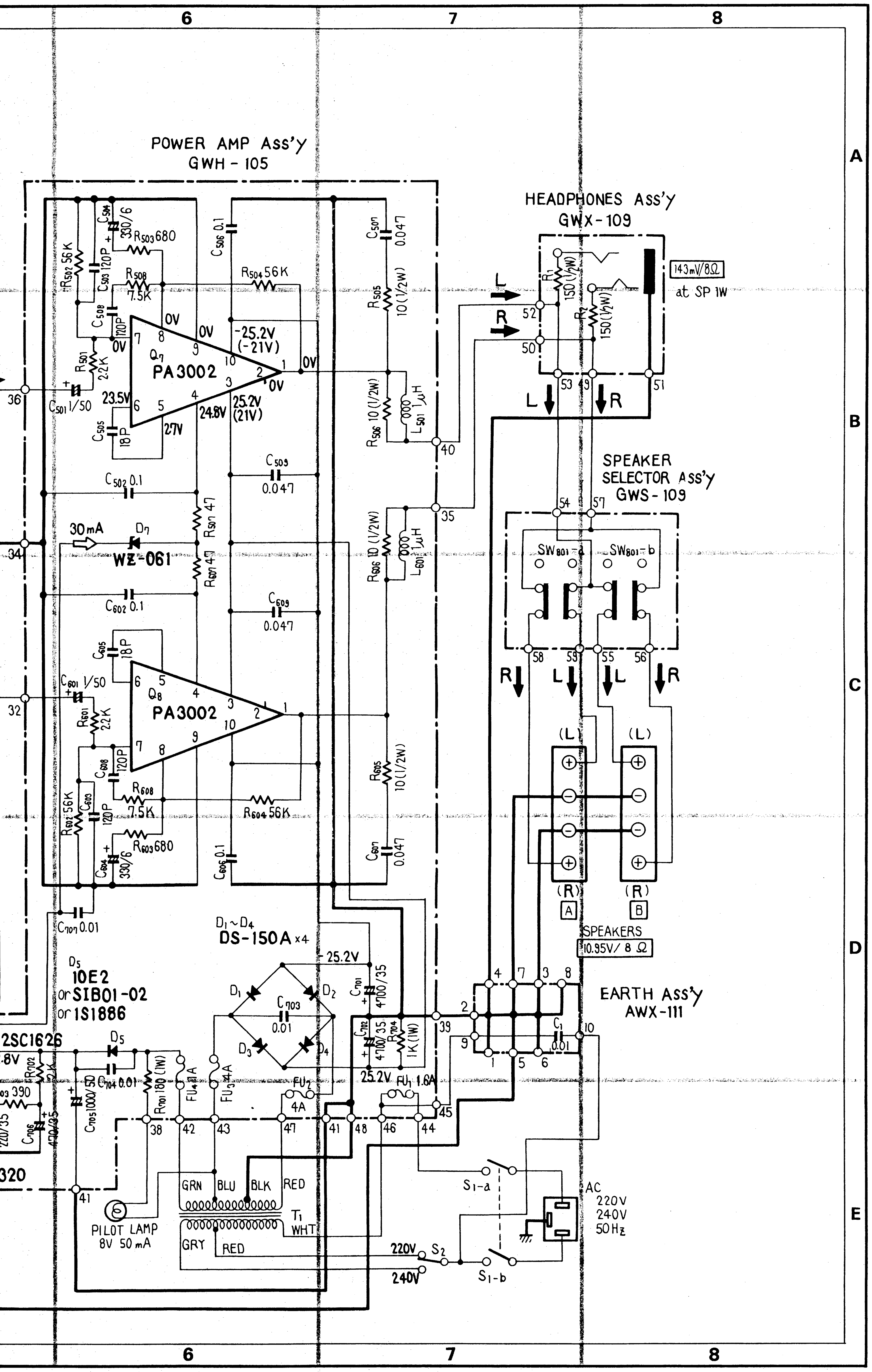

4
5
6
7
8
TONE AMP Ass'y
GWG - 105
POWER AMP Ass'y
GWH - 105
HEADPHONES Ass'y
GWX-109
SPEAKER SELECTOR Ass'y
GWS-109
EARTH Ass'y
AWX-111
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
VR303: TREBLE CONTROL
VR304: BASS CONTROL
Q5, Q6
2SC1312×2
VR 304 a 100K(A2)
VR 303 a 100K(A2)
VR 303 b 100K(A2)
VR 304 b 100K(A2)
VR301 a 250K(B)
VR301 b 250K(B)
VR302 a 100K (HB)
VR302 b 100K (HB)
SW302 - a
SW302 - b
SW301 - a
SW301 - b
Q7 PA3002
Q8 PA3002
-25.2V (-21V)
25.2V (21V)
23.5V
24.8V
27V
0V
30mA
D7 WZ-061
L501 1μH
L601 1μH
143mV/8Ω at SP 1W
SW801-a
SW801-b
SPEAKERS 10.95V/ 8 Ω
(L)
(R)
A
B
L
R
D1 ~ D4 DS-150A ×4
D5 10E2 or SIB01-02 or 1S1886
2SC1626
D6 WZ-320
31.5V
42.8V
32V
5mA
25.2V
FU1 1.6A
FU2 4A
FU3 4A
FU4 1A
T1
GRN BLU BLK RED
GRY RED WHT
PILOT LAMP 8V 50 mA
220V
240V
S2
S1-a
S1-b
AC 220V 240V 50Hz

-W ± 5% TOLERANCE UNLESS
NOTED K : kΩ M : MΩ

ESS OTHERWISE NOTED P : pF

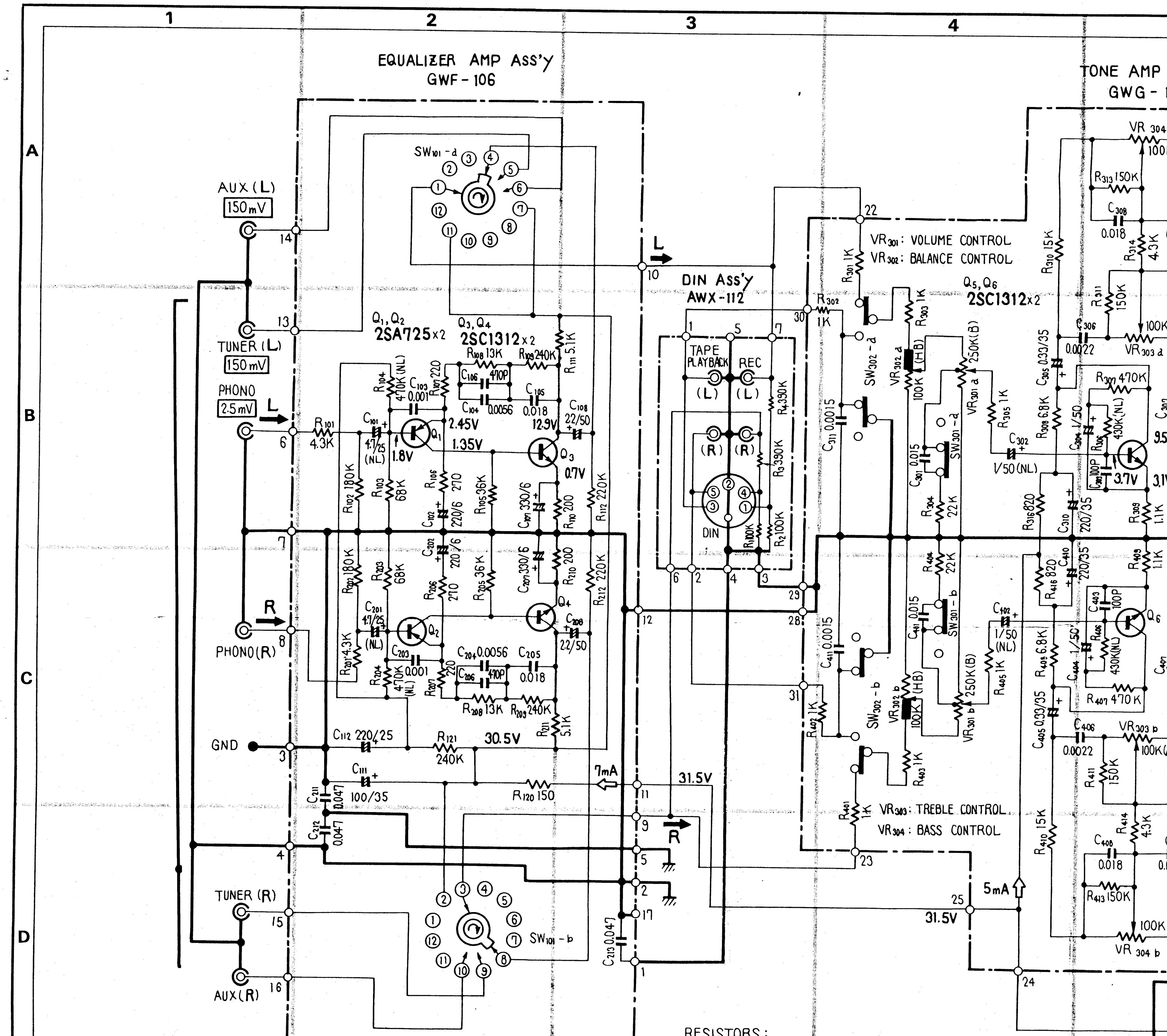
IGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
C VOLTAGE AT NO INPUT SIGNAL
C VOLTAGE AT MAX POWER OUTPUT
C CURRENT AT NO INPUT SIGNAL

PIONEER


6
7
8
A
B
C
D
E
POWER AMP Ass'y
GWH - 105
HEADPHONES Ass'y
GWX - 109
143mV/8Ω
at SP 1W
R1 150 (1/2W)
R2 150 (1/2W)
L
R
52
50
53
49
51
SPEAKER SELECTOR Ass'y
GWS - 109
54
57
SW801-a
SW801-b
58
59
55
56
(L)
(R)
A
B
SPEAKERS
10.95V/ 8 Ω
EARTH Ass'y
AWX - 111
C1 0.01
Q7
PA3002
Q8
PA3002
C504 330/6
R503 680
R502 56K
C503 120P
R508 7.5K
C508 120P
R504 56K
C506 0.1
C507 0.047
R505 10 (1/2W)
R506 10 (1/2W)
L501 1μH
R501 2.2K
C501 1/50
C505 18P
0V
-25.2V
(-21V)
25.2V
(21V)
23.5V
24.8V
27V
C502 0.1
C509 0.047
30mA
D7
WZ-061
R507 47
R607 47
C602 0.1
C609 0.047
C605 18P
C601 1/50
R601 2.2K
C608 120P
R608 7.5K
R604 56K
R602 56K
C603 120P
R603 680
C604 330/6
C606 0.1
C607 0.047
R605 10 (1/2W)
R606 10 (1/2W)
L601 1μH
C707 0.01
D1 ~ D4
DS-150A ×4
D5
10E2
or SIB01-02
or 1S1886
2SC1626
D5
C703 0.01
C701 4700/35
C702 4700/35
R704 1K (1W)
25.2V
C704 0.01
C705 1000/50
R701 180 (1W)
R702 2.2K
R703 390
C706 470/35
220/35
FU4 1A
FU3 4A
FU2 4A
FU1 1.6A
GRN
BLU
BLK
RED
GRY
RED
T1
WHT
PILOT LAMP
8V 50mA
S1-a
S1-b
S2
220V
240V
AC
220V
240V
50Hz
320
36
34
32
40
35
39
38
41
42
43
47
48
46
44
45
1
2
3
4
5
6
7
8
9
10

STEREO AMPLIFIER

SA-5500II S


1
2
3
4
A
B
C
D
E
EQUALIZER AMP ASS'Y
GWF-106
TONE AMP
GWG-
DIN ASS'Y
AWX-112
AUX (L)
150mV
TUNER (L)
150mV
PHONO
2.5mV
PHONO (R)
GND
TUNER (R)
AUX (R)
SW101-a
SW101-b
Q1, Q2
2SA725×2
Q3, Q4
2SC1312×2
Q5, Q6
2SC1312×2
TAPE PLAYBACK
REC
DIN
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
VR303: TREBLE CONTROL
VR304: BASS CONTROL
SW301-a
SW301-b
SW302-a
SW302-b
1.8V
2.45V
1.35V
12.9V
0.7V
30.5V
31.5V
7mA
5mA
3.7V
L
R

RESISTORS;
IN OHM 1/4W ±5% TOLERANCE UNLESS
OTHERWISE NOTED K : kΩ M : MΩ

CAPACITORS;
IN μF UNLESS OTHERWISE NOTED P : pF

SWITCHES;
S1 : POWER
ON — OFF

S2 : LINE VOLTAGE SELECTOR
(FUSE HOLDER)
110V - 120V - 220V - 240V

SW101 : FUNCTION
1. PHONO
2. TUNER
3. AUX

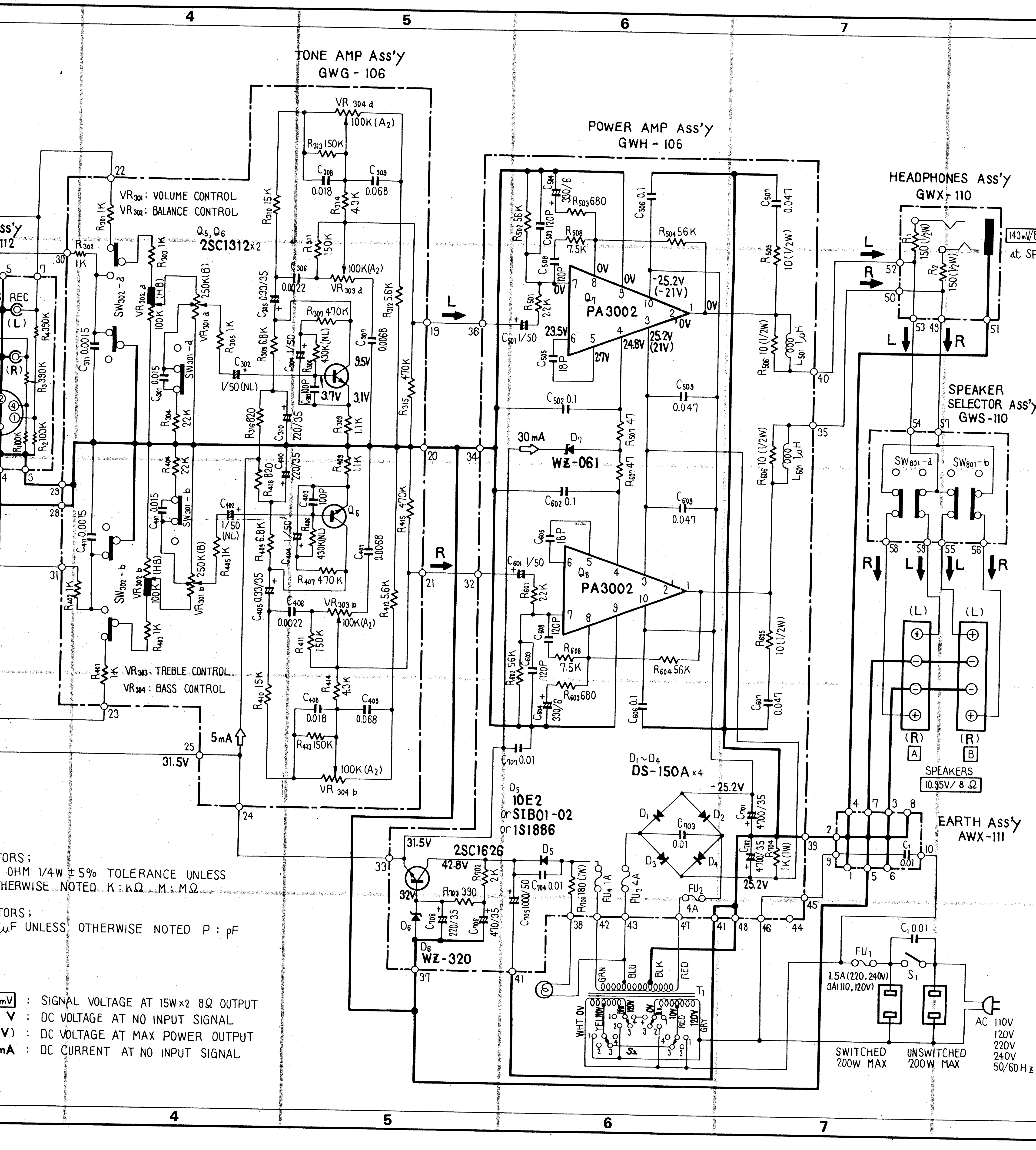
SW301 : LOUDNESS
ON — OFF

SW302 : TAPE MONITOR
ON — OFF

SW801 : SPEAKER
a. ON — OFF
b. ON — OFF

NOTES
$\boxed{\text{mV}}$: SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
V : DC VOLTAGE AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT MAX POWER OUTPUT
mA : DC CURRENT AT NO INPUT SIGNAL

ON — OFF

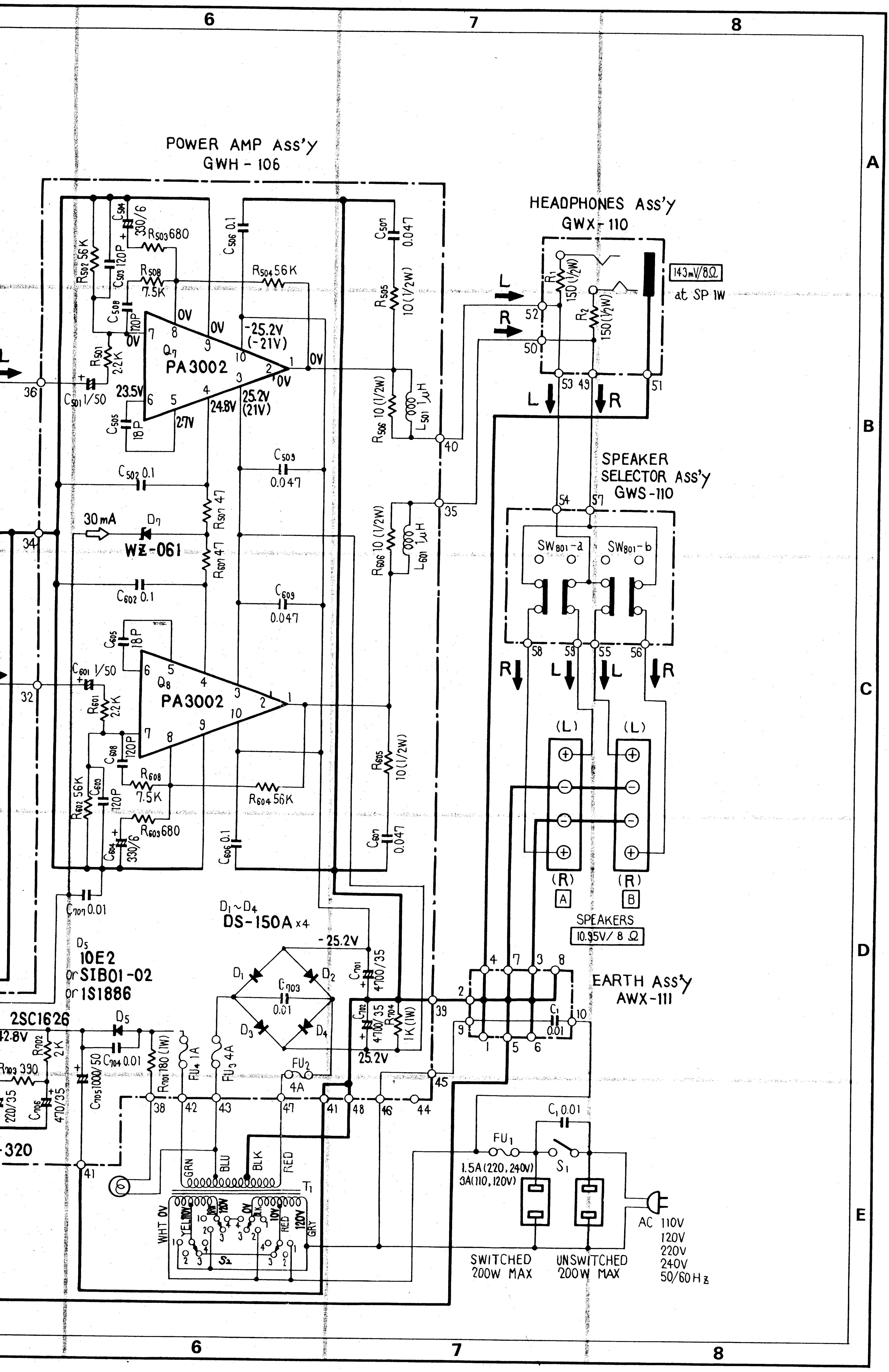

4
5
6
7
TONE AMP Ass'y
GWG-106
VR301: VOLUME CONTROL
VR302: BALANCE CONTROL
Q5, Q6
2SC1312×2
VR303: TREBLE CONTROL
VR304: BASS CONTROL
VR 304 a 100K (A2)
R313 150K
C308 0.018
C309 0.068
R314 4.3K
R311 150K
VR303 a 100K(A2)
R310 15K
R312 5.6K
C306 0.0022
C305 0.033/35
R305 1K
R308 6.8K
R307 470K
C302 1/50(NL)
C304 1/50
R306 430K(NL)
C303 100P
C307 0.0068
R315 470K
9.5V
3.7V
3.1V
R309 1.1K
R316 820
C310 220/35
R418 820
C410 220/35
R409 1.1K
Q6
C403 100P
C402 1/50 (NL)
R406 430K(NL)
C404 1/50
R408 6.8K
R405 1K
R407 470K
C407 0.0068
R415 470K
C405 0.033/35
C406 0.0022
VR303 b 100K(A2)
R412 5.6K
R411 150K
R414 4.3K
R410 15K
C408 0.018
C409 0.068
R413 150K
VR 304 b 100K(A2)
R301 1K
R302 1K
R303 1K
SW302-a
VR302 a 100K (HB)
VR301 a 250K(B)
SW301-a
C301 0.015
C311 0.0015
R304 22K
R404 22K
SW301-b
C401 0.015
C411 0.0015
SW302-b
VR302 b 100K (HB)
VR301 b 250K(B)
R402 1K
R403 1K
R401 1K
5mA
31.5V
ss'y
112
REC
(L)
(R)
R4 390K
R3 390K
R2 100K
R1 100K
L
R
POWER AMP Ass'y
GWH-106
R502 56K
C504 330/6
R503 680
C503 120P
R508 7.5K
C508 120P
C506 0.1
R504 56K
C507 0.047
R505 10 (1/2W)
R501 22K
C501 1/50
Q7
PA3002
0V
-25.2V (-21V)
23.5V
24.8V
25.2V (21V)
27V
C505 18P
R506 10 (1/2W)
L501 1μH
C502 0.1
C503 0.047
30mA
D7
WZ-061
R501 47
R601 47
C602 0.1
C609 0.047
R606 10 (1/2W)
L601 1μH
C605 18P
C601 1/50
Q8
PA3002
R601 22K
C608 120P
R608 7.5K
R604 56K
R605 10 (1/2W)
R602 56K
C603 120P
R603 680
C604 330/6
C606 0.1
C607 0.047
C707 0.01
D1~D4
DS-150A ×4
D5
10E2
or SIB01-02
or 1S1886
-25.2V
D1
D2
D3
D4
C703 0.01
C701 4700/35
C702 4700/35
R704 1K (1W)
25.2V
31.5V
2SC1626
42.8V
R702 2K
R703 390
C708 220/35
C706 470/35
32V
D6
D6
WZ-320
C705 1000/50
C704 0.01
R701 180 (1W)
FU4 1A
FU3 4A
FU2 4A
GRN
BLU
BLK
RED
T1
WHT 0V
YEL
GRY
S2
HEADPHONES Ass'y
GWX-110
R1 150 (1/2W)
R2 150 (1/2W)
143mV/8
at SP
SPEAKER SELECTOR Ass'y
GWS-110
SW801-a
SW801-b
(L)
(R)
A
B
SPEAKERS
10.95V/ 8 Ω
EARTH Ass'y
AWX-111
C1 0.01
FU1
1.5A (220, 240V)
3A(110, 120V)
S1
SWITCHED 200W MAX
UNSWITCHED 200W MAX
AC 110V
120V
220V
240V
50/60Hz

TORS;
OHM 1/4W ±5% TOLERANCE UNLESS
THERWISE NOTED K: kΩ M: MΩ

TORS;
μF UNLESS OTHERWISE NOTED P: pF

mV] : SIGNAL VOLTAGE AT 15W×2 8Ω OUTPUT
V : DC VOLTAGE AT NO INPUT SIGNAL
V) : DC VOLTAGE AT MAX POWER OUTPUT
mA : DC CURRENT AT NO INPUT SIGNAL

PIONEER


6
7
8
A
B
C
D
E
POWER AMP ASS'Y
GWH - 106
HEADPHONES ASS'Y
GWX - 110
143mV/8Ω
at SP 1W
SPEAKER SELECTOR ASS'Y
GWS-110
SW801-a
SW801-b
EARTH ASS'Y
AWX-111
SPEAKERS
10.95V/ 8 Ω
Q7
PA3002
Q8
PA3002
D7
WZ-061
30mA
D1~D4
DS-150A x4
D5
10E2
or SIB01-02
or 1S1886
2SC1626
-25.2V
(-21V)
25.2V
(21V)
23.5V
24.8V
27V
0V
R503 680
R502 56K
C503 120P
C504 330/6
R508 7.5K
C508 120P
R501 22K
C501 1/50
C505 18P
C506 0.1
R504 56K
C507 0.047
R505 10(1/2W)
R506 10(1/2W)
L501 1μH
C509 0.047
C502 0.1
R507 4.7
R607 4.7
C602 0.1
C609 0.047
R606 10(1/2W)
L601 1μH
C605 18P
C601 1/50
R601 22K
C608 120P
R608 7.5K
R604 56K
R602 56K
C603 120P
R603 680
C604 330/6
C606 0.1
R605 10(1/2W)
C607 0.047
C707 0.01
C701 4700/35
C702 4700/35
C703 0.01
R704 1K(1W)
C704 0.01
C705 1000/50
R701 180(1W)
R702 2K
R703 330
C706 470/35
220/35
FU4 1A
FU3 4A
FU2 4A
R1 150(1/2W)
R2 150(1/2W)
C1 0.01
FU1
1.5A(220,240V)
3A(110,120V)
S1
S2
T1
GRN
BLU
BLK
RED
WHT 0V
YEL
GRY
SWITCHED
200W MAX
UNSWITCHED
200W MAX
AC 110V
120V
220V
240V
50/60Hz
L
R
(L)
(R)
A
B
36
34
32
35
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
-320
42.8V